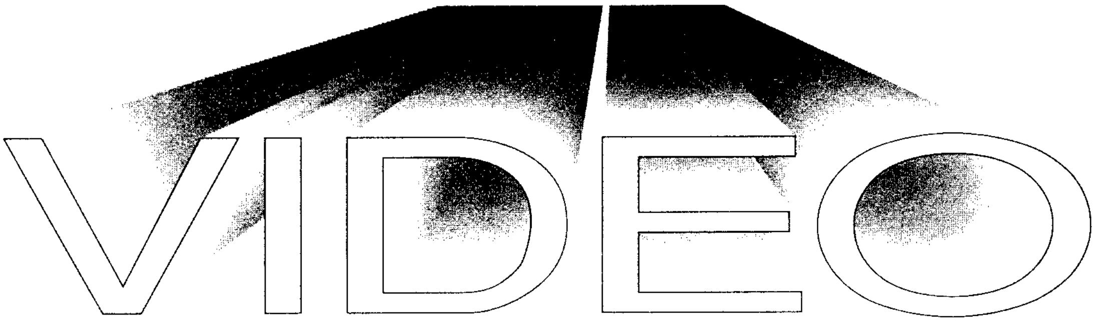
● **BLAUPUNKT**
Bosch Telecom

Video Recorder
RTV-760 EGC/EN/EV
7 618 830/31/33

Kundendienstschrift · Service Manual

Ⓓ **Btx ✶ 30 39 681 #**

MC/VKD 1 D91 420 036



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Spare parts List to Explo No. 1

Lfd. Nr. Item No.	Bestell-Nr. Part No.
1	8 619 510 508
5	8 619 416 100
6	8 619 520 492
7	8 619 520 493
11	8 619 414 205
12	8 619 414 631
13	8 619 414 206
14	8 619 510 351
15 0,5 mm	8 619 417 411
15 0,3 mm	8 619 417 412
15 0,2 mm	8 619 417 413
16	8 619 414 207
17	8 619 434 602
18	8 619 414 208
20	8 619 414 409
21	8 619 414 209
22	8 619 414 632
23	8 619 520 207
24	8 619 419 152
25	8 619 419 153
26	8 619 414 633
27	8 619 419 154
28	8 619 414 213
29	8 619 416 600
31	8 619 417 520
32	8 619 316 604
33	8 619 312 507
34	8 619 530 626
35	8 619 414 554
36	8 619 419 504
37	8 619 419 157
38	8 619 414 634
39	8 619 530 461
40	8 619 414 635
41	8 619 414 555
42	8 619 417 521
43	8 619 414 369
44	8 619 417 235
45	8 619 419 321
46	8 619 419 610
47	8 619 419 159
48	8 619 414 637
49	8 619 416 103
50	8 619 510 314
51	8 619 416 307
52	8 619 212 560
53	8 619 510 421
54	8 619 510 630
55	8 619 520 224
57	8 619 416 308
58	8 619 510 422
59	8 619 312 502
60	8 619 414 218
62	8 619 510 353
63	8 619 414 220
64	8 619 417 363
65	8 619 510 497
66	8 619 520 501
67	8 619 414 221
68	8 619 417 231
69	8 619 414 638
70	8 619 419 611
71	8 619 510 352
72	8 619 414 223
76	8 619 417 522
77	8 619 418 506
80	8 619 419 149
83	8 619 419 601
84	8 619 417 183
85	8 619 419 327
86	8 619 510 315
87	8 619 419 160
88	8 619 419 161
89	8 619 419 328
90	8 619 419 162
91	8 619 530 462
92	8 619 520 491
93	8 619 414 401
94	8 619 530 463
95	8 619 520 453
96	8 619 520 454
97	8 619 580 583

ET-Liste zur Explo Nr. 2
Spare parts List to Explo No. 2

Lfd. Nr. Item No.	Bestell-Nr. Part No.
100	8 619 414 409
101	8 619 414 640
102	8 619 414 641
103	8 619 510 150
104	8 619 510 151
105	8 619 419 168
106	8 619 414 642
107	8 619 419 169
108	8 619 419 331
109	8 619 416 126
110	8 619 414 229
111	8 619 419 319
112	8 619 414 352
113	8 619 414 357
114	8 619 416 309
115	8 619 414 354
116	8 619 419 317
117	8 619 414 643
118	8 619 414 358
119	8 619 414 346
120	8 619 414 351
121	8 619 411 402
122	8 619 414 230
123	8 619 414 231
124	8 619 414 644
125	8 619 414 232
127	8 619 418 308
128	8 619 419 332
129	8 619 414 233
130	8 619 414 234
131	8 619 414 235
132	8 619 417 910
133	8 619 510 349
134	8 619 510 903
135	8 619 429 405
136	8 619 416 105
137	8 619 417 357
138	8 619 419 318
139	8 619 414 645
140	8 619 414 236
141	8 619 419 333
142	8 619 416 312
143	8 619 416 313
144	8 619 414 237
145	8 619 414 238
146	8 619 419 316
147	8 619 419 191
148	8 619 434 600
149	8 619 416 613
150	8 619 419 500
151	8 619 419 501

ORDER NO. VRD9109M155

Service Manual

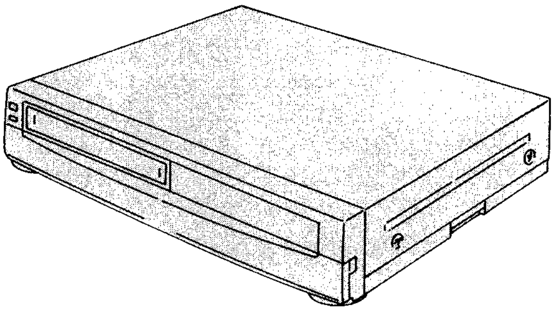
General Description
Adjustment Procedures
Block/Schematic Diagrams
Exploded Views/Parts List

Video Cassette Recorder

Panasonic VHS
PAL NTSC 4.43

Hi-Fi HQ

NV-F55EG EV



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220∼240V 50/60Hz	
	CONSUMPTION: 32 watts	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL/NTSC 4.43	
TV TUNER SYSTEM	GERMANY	VHF I: CHE2∼CHE4 VHF III: CHS4∼CHE12 VHF H: CHS11∼CHS20 (PAL/SECAM B) 75Ω unbalanced UHF: CH21∼CH69 (PAL/SECAM G) 75Ω unbalanced
	ITALY	VHF I: CHA∼CHH VHF III: CHS4∼CHH2 VHF H: CHS11∼CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21∼CH69 (PAL/SECAM G) 75Ω unbalanced
	OTHER COUNTRIES	VHF I: CHE2∼CHS3 VHF III: CHM1∼CHE12 VHF H: CHU1∼CHS41 (PAL/SECAM B) 75Ω unbalanced UHF: CH21∼CH69 (PAL/SECAM G) 75Ω unbalanced
RF OUT SYSTEM	UHF: CH36±4 (PAL G) 76^{+2}_{-3}dBμ, 75Ω unbalanced	
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L′-R′ heads)	
	INPUT: VIDEO IN Connector (Phono type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω unbalanced	

ITEM	SPECIFICATION
VIDEO	OUTPUT: VIDEO OUT Connector (Phono type) 1.0Vp-p, 75Ω terminated EURO AV Connector (21 pin) 1.0Vp-p, 75Ω unbalanced
AUDIO	HEAD: 1 Stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	INPUT: AUDIO IN Connector (Phono type) More than −10dBV (316mV), more than 47kΩ EURO AV Connector (21 pin) More than −6dBV (500mV) more than 10kΩ MICROPHONE JACK −70dBV
	OUTPUT: AUDIO OUT Connector (Phono type) −8dBV (400mV), Less than 1kΩ EURO AV Connector (21 pin) −6dBV (500mV), Less than 1kΩ
	TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TAPE FORMAT	VHS Cassette tape (Tape width 12.7mm)
TAPE SPEED	SP: 23.39mm/s LP: 11.695mm/s Record/Playback Time: SP: 4 hours with 240min. type tape LP: 8 hours with 240min. type tape FF/REW Time 2.5min. with 180min. type tape
DIMENSIONS	430(W)×96(H)×356(D)mm
WEIGHT	5.4kg
STANDARD ACCESSORIES	1 pc. DIN-RE Cable 1 pc. Infra-red remote controller 2 pc. Audio Cables 1 pc. Programme sheet 1 pc. AC Mains Lead

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.
Section 1 presents you with some general information of features and controls, enabling you to become familiar with each function.
Section 2 contributes to your mechanical and electrical adjustment as well disassembly and replacement procedures.
In the case of very common information relating to other models like mechanical adjustments, please refer to each service manual.
Section 3 contains block diagrams which offers you information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c...
Section 4 contains exploded views and parts list.
Please place orders using the parts list and not the drawing reference numbers.
If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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SERVICE INFORMATION

1-1. HOW TO CHECK THE CRACKED CHIP PART

(1) Apply heat to the soldered portions of chip part using a soldering iron for about 2–3 seconds.
(2) If the chip part is faulty,it will be broken or cracked.

Caution: Do not leave soldering iron on the PCB too long as damage may occur to the PCB or the chip parts.

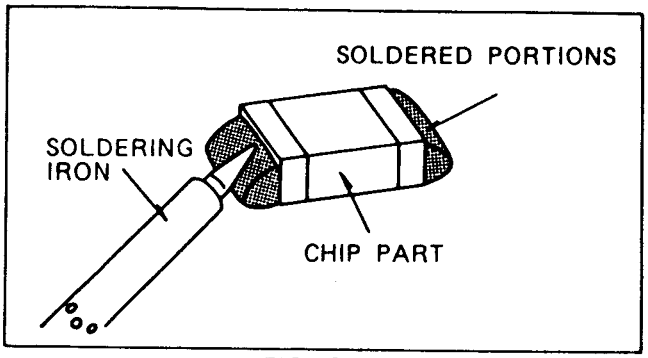
SOLDERED PORTIONS
SOLDERING IRON
CHIP PART

FIG. G1

Note: Regarding intermittent faults
The main causes of these faults are poor soldering and cracked chip parts.

1-2. HOW TO REPLACE THE CHIP PART

1) REMOVAL (RESISTOR, CAPACITOR, etc...)

(1) Presolder the one side of soldering portion for chip part and grasp the chip part by tweezers.

(2) Melt the presoldered portion. And then remove the chip part with a twisting motion while melting the soldering portion of another side quickly.

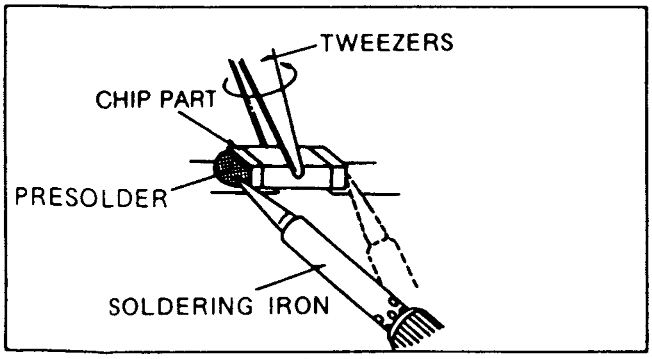
TWEEZERS
CHIP PART
PRESOLDER
SOLDERING IRON

FIG. G2

2) REMOVAL (transistor, diode, etc...)

(1) Grasp the chip part with tweezers and melt the solder of one lead.

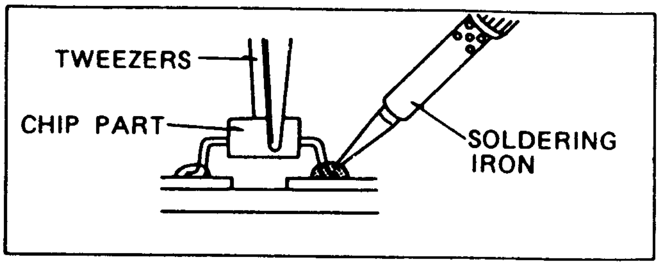
TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G3

(2) Lift the side of that lead upward.

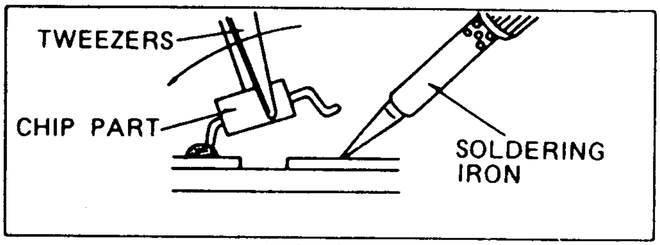
TWEEZERS
CHIP PART
SOLDERING IRON

FIG. G4

Caution: Do not lift the chip part too high as damage may occur to the PCB or the leads that are still soldered on the PCB.

(3) Simultaneously heat the solder of the two remaining leads and lift part to remove.

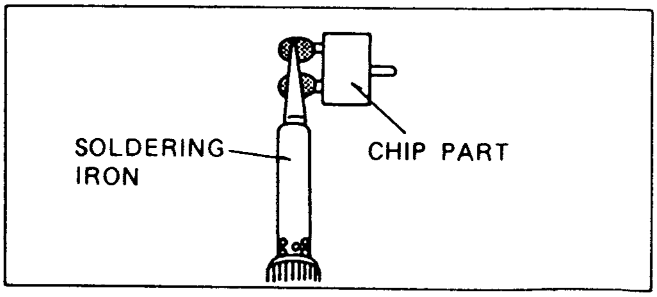
SOLDERING IRON
CHIP PART

FIG. G5

3) INSTALLATION

(1) Presolder the one side of contact point on the circuit board.

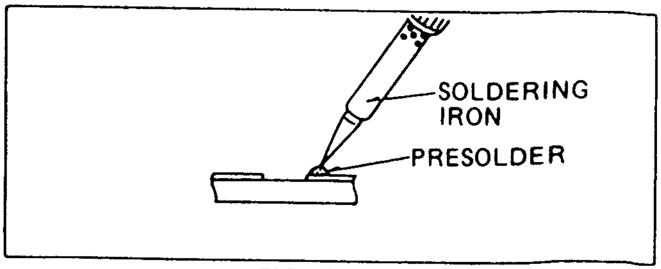
SOLDERING IRON
PRESOLDER

FIG. G6

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ET-Liste zur Explo Nr. 3
Spare parts List to Explo No. 3

Lfd. Nr. Item No.	Bestell-Nr. Part No.
201	8 619 416 127
202	8 619 530 464
217	8 619 530 669
218	8 619 520 490
219	8 619 530 670
221	8 619 520 283
229	8 619 419 305
230	8 619 419 613
231	8 619 417 222
232	8 619 417 223
233	8 619 419 614
234	8 619 414 244
240	8 619 416 128
241	8 619 580 571
242	8 619 580 587

ET-Liste zur Explo Nr. 4
Spare parts List to Explo No. 4

Lfd. Nr. Item No.	Bestell-Nr. Part No.
300	8 619 580 241
301	8 619 319 505
302	8 619 520 478
302	8 619 520 494
303	8 619 312 249
304	8 619 520 495
305	8 619 520 496
306	8 619 520 463
307	8 619 520 497
308	8 619 520 498
309	8 619 520 499
310	8 619 520 464
319 (EGC/EV)	8 619 520 477
319 (EN)	8 619 520 479
320	8 619 510 980
332	8 619 418 601
335	8 619 590 560

Batteriefachdeckel für IR-Fernbedienung Für die Fernbedienung sind keine weiteren Ersatzteile lieferbar	8 619 530 679
Battery cover for IR-remote controller Further spare parts for remote controller are not available	8 619 530 679

Ersatzteilliste

Spare Parts List

Wichtige mechanische Bauteile
Important mechanical Parts

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Kopftrommel DD cylinder unit	8 619 520 492
2	Kopfscheibe Upper cylinder unit	8 619 520 493
3	Capstan Rotor Capstan rotor unit	8 619 510 349
4	Capstan Stator Capstan stator unit	8 619 429 405
5	Tuner	8 619 530 418
6	HF-Konverter RF converter	8 619 580 029
7	Netzeingangsbuchse AC Jack	8 619 427 649
8	Netzkabel Power cable	8 619 496 701
9	Antennenkabel RF cable	8 619 496 700
10	IR-Fernbedienung IR remote control unit	8 619 590 838
11	Programmiertabelle Programming sheet	8 619 590 010
12	Laufwerk-Verbindungsplatine Mechanism Connection C.B.A.	8 619 580 027

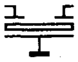
Hauptplatine
Main C.B.A.

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Antennenplatine Antenna plate	8 619 590 560
2	Flachkabel Flex. cable	8 619 580 590
3	Flachkabel Flex. cable	8 619 580 591
4	Flachkabel Flex. cable	8 619 580 589
5	Flachkabel Flex. cable	8 619 580 588
6	Stecker (10-polig) (EGC/EV) Connector	8 619 510 859
▶|		
D 301	MA 4091	8 905 406 163
D 305	1 SS 254	8 945 405 979
D 710	MA 3100 L	8 945 405 724
D 801	MA 723 VT	8 925 405 557
D 802	1 SS 254	8 945 405 979
D 803	1 SS 254	8 945 405 979
D 804	MA 723 VT	8 925 405 557
D 806	1 SS 254	8 945 405 979
D 2001	1 SS 254	8 945 405 979
D 2002	1 SS 254	8 945 405 979
D 2003	1 SS 254	8 945 405 979
D 2004	1 SS 254	8 945 405 979
D 2005	ERA 15-01	8 945 405 527
D 2006	AK 04	8 945 405 929
D 2007	MA 151 K	8 945 405 226
D 2009	MA 723 VT	8 925 405 557
D 2010	MA 723 VT	8 925 405 557
D 2011	1 SS 254	8 945 405 979
D 2012	1 SS 254	8 945 405 979
D 2013	1 SS 254	8 945 405 979
D 3001	MA 151 WA	8 945 405 330
D 3003	1 SS 254	8 945 405 979
D 3004	1 SS 254	8 945 405 979
D 3006	11 EQS 04	8 945 405 791
D 3010	1 SS 254	8 945 405 979
D 3011	1 SS 254	8 945 405 979
D 3901	1 SS 254	8 945 405 979
D 3902	MA 151 K	8 945 405 226
D 3903	MA 151 WK	8 945 405 317
D 3930	MA 151 WK	8 945 405 317
D 4003	MA 73	8 945 405 585
D 4004	1 SS 254	8 945 405 979
D 4005	MA 73	8 945 405 585
D 4050	MA 73	8 945 405 585
D 4051	MA 73	8 945 405 585
D 4501	MA 151 K	8 945 405 226
D 4502	MA 151 K	8 945 405 226
D 4503	MA 151 K	8 945 405 226
D 4504	MA 151 K	8 945 405 226
D 4602	MA 151 K	8 945 405 226
D 4951	MA 4068 (EGC)	8 945 421 442
D 4952	MA 4068 (EGC)	8 945 421 442
D 6002	1 SS 254	8 945 405 979

Ersatzteilliste

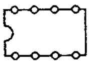
Spare Part List

Position Position	Bezeichnung Designation		Bestell-Nr. Part no.
D 6003	1 SS 254		8 945 405 979
D 6004	1 SS 254		8 945 405 979
D 6005	1 SS 254		8 945 405 979
D 6006	SV 03 YS		8 945 405 858
D 6009	MA 723 VT		8 925 405 557
D 6011	1 SS 254		8 945 405 979
D 6012	1 SS 254		8 945 405 979
D 6013	1 SS 254		8 945 405 979
D 6014	1 SS 254		8 945 405 979
D 6015	MA 151 WA		8 945 405 330
D 7001	MA 723 VT		8 925 405 557
D 7002	MA 723 VT		8 925 405 557
D 7303	MA 28 WA		8 945 405 621
D 7304	MA 3100 L		8 945 405 724
D 7672	MA 3150 H		8 945 406 149
D 7673	MA 3150 H		8 945 406 149
D 7851	1 SS 254	(EGC/EV)	8 945 405 979



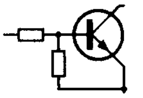
DL 801			8 619 580 309
DL 802			8 619 580 306

FL 301			8 619 439 046
FL 801			8 619 530 089
FL 4501			8 619 510 786



IC 301	MSM 6965-3 RS		8 945 901 917
IC 302	VEFH 14 D		8 945 903 146
IC 701	M 51366 SP		8 945 901 286
IC 801	M 52063 SP		8 945 902 760
IC 802	M 52065 FP		8 945 903 130
IC 2001	UPD 358 G 2		8 945 900 886
IC 2002	XRA 6435 S		8 925 900 547
IC 3901	M 51292 FP		8 945 903 004
IC 3902	BA 7004		8 905 956 752
IC 3903	NJM 2244 MA	(EGC)	8 925 900 869
IC 4001	RC 4558 D		8 945 903 427
IC 4501	BH 7770 KS		8 925 900 866
IC 4601	BA 7755 AF		8 925 900 867
IC 4901	M 51293 FP		8 945 903 005
IC 4902	MN 4066 BS	(EGC/EV)	8 945 901 068
IC 6001	MN 67431 VREH		8 925 900 868
IC 6002	SI-3090 CA		8 945 903 334
IC 6003	UPD 358 G 2		8 945 900 886
IC 6004	PST 591 D		8 945 903 425
IC 7001	M 66006 FP		8 925 900 842
IC 7301	TDA 3803 A		8 945 901 097
IC 7302	TA 8721 SN		8 945 903 428
IC 7801	SAA 4700	(EGC/EV)	8 945 902 448
IC 7851	MN 158413 VSSY	(EGC/EV)	8 945 903 013
IC 7852	MN 1280 S	(EGC/EV)	8 945 902 705

Position Position	Bezeichnung Designation		Bestell-Nr. Part no.
Q 301	MSC 2295 (2 SC 2295)		8 945 706 107
Q 303	MSB 709 (2 SB 709)		8 945 706 104
Q 703	2 SD 601		8 925 820 030
Q 712	2 SD 1996-RS		8 925 705 469
Q 714	MSD 601 (2 SD 601)	(EN)	8 945 706 108
Q 771	MSD 601 (2 SD 601)		8 945 706 108
Q 801	MSC 2295 (2 SC 2295)		8 945 706 107
Q 802	MSD 601 (2 SD 601)		8 945 706 108
Q 803	MSD 601 (2 SD 601)		8 945 706 108
Q 805	MSD 601 (2 SD 601)		8 945 706 108
Q 3001	MSD 601 (2 SD 601)		8 945 706 108
Q 3003	MSB 710-R		8 925 705 466
Q 3004	2 SB 1320		8 945 706 106
Q 3006	MSD 601 (2 SD 601)		8 945 706 108
Q 3008	MSC 2295 (2 SC 2295)		8 945 706 107
Q 3009	MSB 709 (2 SB 709)		8 945 706 104
Q 3010	MSC 2295 (2 SC 2295)		8 945 706 107
Q 3011	MSC 2295 (2 SC 2295)		8 945 706 107
Q 3013	MSD 601 (2 SD 601)		8 945 706 108
Q 3014	MSB 709 (2 SB 709)		8 945 706 104
Q 3902	2 SC 2295 (MSC 2295)		8 945 705 490
Q 4001	MSB 710-R		8 925 705 466
Q 4003	2 SD 602 A		8 945 705 281
Q 4501	2 SD 655 F		8 905 706 023
Q 4551	2 SB 561		8 905 705 384
Q 4601	MSD 1328 (2 SD 1328)		8 945 706 110
Q 4951	2 SB 774 (EGC)		8 905 705 372
Q 4952	2 SD 636 (EGC)		8 905 705 604
Q 6001	MSD 602		8 925 705 158
Q 6002	2 SD 1994		8 945 706 029
Q 6003	2 SD 1994		8 945 706 029
Q 6004	2 SD 1994		8 945 706 029
Q 6005	MSD 601 (2 SD 601)		8 945 706 108
Q 6007	MSB 709 (2 SB 709)		8 945 706 104
Q 6008	2 SD 1996		8 945 706 078
Q 6009	2 SB 1378		8 925 705 463
Q 6010	MSB 710-R		8 925 705 466
Q 6012	2 SB 1321		8 945 706 025
Q 6015	MSD 601 (2 SD 601)	(EN)	8 945 706 108
Q 7301	MSD 601 (2 SD 601)		8 945 706 108
Q 7304	MSD 601 (2 SD 601)		8 945 706 108
Q 7305	MSD 601 (2 SD 601)		8 945 706 108
Q 7306	2 SC 2404		8 925 705 095
Q 7307	2 SD 1328		8 925 820 031

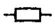


QR 301	IMH 5		8 925 705 462
QR 302	IMH 5		8 925 705 462
QR 303	MRN 1404		8 945 706 094
QR 304	MRN 1403		8 945 706 093
QR 701	MRN 1404	(EGC/EV)	8 945 706 094
QR 702	MRN 1404		8 945 706 094
QR 703	MRN 2403	(EN)	8 945 706 103
QR 704	MRN 1404	(EN)	8 945 706 094
QR 711	MRN 1403		8 945 706 093
QR 712	MRN 1403		8 945 706 093
QR 801	MRN 2404		8 945 706 091
QR 802	MRN 1404		8 945 706 094
QR 803	IMH 6		8 925 705 447

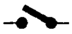
Ersatzteilliste

Spare Parts List

Position Position	Bezeichnung Designation		Bestell-Nr. Part no.
QR 2001	MRN 2404		8 945 706 091
QR 2002	MRN 2404		8 945 706 091
QR 2003	MRN 1407		8 945 706 105
QR 2004	DTC 114 TK		8 925 705 471
QR 2005	MRN 1404		8 945 706 094
QR 2006	MRN 1404		8 945 706 094
QR 3001	MRN 2402		8 945 706 090
QR 3006	MRN 2402		8 945 706 090
QR 3009	DTC 363 EK		8 925 705 138
QR 3010	DTC 363 EK		8 925 705 138
QR 3012	MRN 1403		8 945 706 093
QR 3013	MRN 1404		8 945 706 094
QR 3901	MRN 1404	(EGC)	8 945 706 094
QR 3902	MRN 2404	(EGC)	8 945 706 091
QR 3903	MRN 1403	(EGC)	8 945 706 093
QR 4001	MRN 1404		8 945 706 094
QR 4002	MRN 2402		8 945 706 090
QR 4003	MRN 2402		8 945 706 090
QR 4004	MRN 1404		8 945 706 094
QR 4005	MRN 1404		8 945 706 094
QR 4006	DTC 363 EK		8 925 705 138
QR 4508	MRN 2404		8 945 706 091
QR 4509	MRN 1403		8 945 706 093
QR 4510	MRN 1403		8 945 706 093
QR 4602	MRN 2402		8 945 706 090
QR 4603	MRN 1404		8 945 706 094
QR 4901	MRN 1404	(EGC)	8 945 706 094
QR 6001	UN 221 K		8 925 705 472
QR 6002	MRN 1403		8 945 706 093
QR 6003	MRN 1403		8 945 706 093
QR 6004	MRN 2404		8 945 706 091
QR 6005	UN 2119-TW		8 925 705 473
QR 6006	MRN 2404		8 945 706 091
QR 6007	MRN 2404		8 945 706 091
QR 6008	MRN 1402		8 945 706 092
QR 6009	MRN 1404		8 945 706 094
QR 6012	MRN 1403		8 945 706 093
QR 6013	MRN 1404		8 945 706 094
QR 6015	MRN 1404		8 945 706 094
QR 6016	MRN 1404		8 945 706 094
QR 6018	MRN 1404		8 945 706 094
QR 6020	MRN 1404		8 945 706 094
QR 6021	MRN 1404		8 945 706 094
QR 6022	MRN 2404		8 945 706 091
QR 7001	MRN 1402		8 945 706 092
QR 7004	MRN 2404		8 945 706 091
QR 7301	MRN 1404		8 945 706 094
QR 7302	MRN 1404		8 945 706 094
QR 7312	MRN 1402		8 945 706 092
QR 7313	MRN 1402		8 945 706 092
QR 7314	MRN 1402		8 945 706 092
QR 7315	MRN 1404		8 945 706 094
QR 7316	MRN 1404		8 945 706 094
QR 7851	UN 6211	(EGC/EV)	8 925 705 459
QR 7852	UN 6213	(EGC/EV)	8 925 705 460

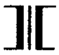


R 6001	22	Ω	2 W	8 940 599 263
R 6011	22	Ω	3 W	8 940 599 364
R 7676	1,5	kΩ	1 W	8 940 599 365

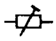


SW 3901	8 619 428 214

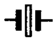
Position Position	Bezeichnung Designation		Bestell-Nr. Part no.



T 703	(EGC/EV)	8 619 435 204
T 703	(EN)	8 619 530 238
T 704		8 619 439 200
T 4001		8 619 434 201
T 7301		8 619 336 204
T 7302		8 619 530 221
T 7303		8 619 530 221
T 7304		8 619 434 215
T 7305		8 619 434 214



VR 301	2	kΩ	8 941 599 777
VR 701	2	kΩ	8 941 599 777
VR 702	2	kΩ	8 941 599 777
VR 741	10	kΩ	8 941 599 503
VR 801	1	kΩ	8 941 599 778
VR 802	1	kΩ	8 941 599 778
VR 803	10	kΩ	8 941 599 830
VR 2001	50	kΩ	8 941 599 779
VR 2006	100	kΩ	8 941 599 780
VR 2011	100	kΩ	8 941 599 780
VR 3001	2	kΩ	8 941 599 783
VR 3012	500	Ω	8 941 599 853
VR 3013	500	Ω	8 941 599 781
VR 4002	200	kΩ	8 941 599 782
VR 4004	5	kΩ	8 941 599 784
VR 4501	5	kΩ	8 941 599 854
VR 4502	20	kΩ	8 941 599 855
VR 4507	20	kΩ	8 941 599 855
VR 4509	3,3	kΩ	8 941 599 856
VR 4512	500	Ω	8 941 599 781
VR 4550	6,8	kΩ	8 941 599 857
VR 4551	500	kΩ	8 941 599 858
VR 4552	500	kΩ	8 941 599 858
VR 7301	10	kΩ	8 941 599 852
VR 7326	500	Ω	8 941 599 851
VR 7328	500	Ω	8 941 599 851
VR 7340	10	kΩ	8 941 599 134
VR 7342	5	kΩ	8 941 599 364
VR 7344	10	kΩ	8 941 599 134
VR 8001	2	kΩ	8 941 599 783



X 710	(EGC/EV)	8 946 193 404
X 710	(EN)	8 946 193 428
X 711	(EGC/EV)	8 946 193 369
X 713	(EN)	8 946 193 134
X 716	(EGC/EV)	8 946 193 156
X 717	(EGC/EV)	8 946 193 156
X 801	(EGC/EV)	8 946 193 025
X 3901		8 906 193 051
X 6001		8 946 193 216
X 7001		8 946 193 178
X 7301		8 946 193 135
X 7302		8 946 193 135
X 7303		8 946 193 136
X 7304		8 946 193 136
X 7305		8 946 193 026
X 7851	(EGC/EV)	8 946 193 277

Ersatzteilliste

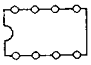
Spare Part List

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.

NICAM-Dekoderplatine NICAM Decoder C.B.A. (EN)

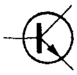
D 7901	MA 141 WK	8 945 405 817
D 7902	MA 141 WK	8 945 405 817
D 7903	MA 141 WK	8 945 405 817
D 7904	MA 141 K	8 945 405 813
D 7905	MA 141 WA	8 945 405 814
D 7906	MA 141 WK	8 945 405 817
D 7907	MA 141 K	8 945 405 813

FL 7901		8 619 439 040
FL 7902		8 619 530 269
FL 7904		8 619 530 269
FL 7905		8 619 530 269
FL 7906		8 619 530 269
FL 7907		8 619 530 269
FL 7908		8 619 530 269
FL 7909		8 619 530 269
FL 7910		8 619 530 269
FL 7911		8 619 530 269
FL 7912		8 619 510 785
FL 7913		8 619 510 785
FL 7914		8 619 510 785
FL 7915		8 619 510 785
FL 7916		8 619 530 268
FL 7918		8 619 530 269



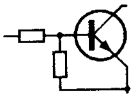
IC 7901	TB 1204 F	8 925 900 863
IC 7902	TA 2009 F	8 925 900 864
IC 7903	M 5238 FP	8 925 900 865
IC 7504	MN 1280 L	8 945 901 543
IC 7505	BA 6810 S	8 945 902 437

L 7901		8 619 439 050
L 7902		8 619 439 050

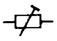


Q 7901	MSD 601 (2 SD 601)	8 945 706 108
Q 7902	MSD 601 (2 SD 601)	8 945 706 108
Q 7903	2 SC 3931	8 945 705 648
Q 7904	2 SB 1219	8 945 705 647
Q 7905	2 SB 1219	8 945 705 647
Q 7906	2 SB 1219	8 945 705 647
Q 7907	2 SB 1219	8 945 705 647
Q 7908	2 SC 3929	8 945 705 658
Q 7909	2 SC 3929	8 945 705 658
Q 7910	2 SD 1820	8 945 705 651
Q 7911	2 SD 1820	8 945 705 651
Q 7912	2 SB 1219	8 945 705 647
Q 7913	2 SB 1218 QRS	8 945 705 468
Q 7914	2 SD 1979-ST	8 945 705 467

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 7915	2 SD 1979-ST	8 945 705 467
Q 7916	2 SB 1219	8 945 705 647
Q 7917	2 SB 1219	8 945 705 647



QR 7901	UN 5213	8 945 705 659
QR 7902	UN 5213	8 945 705 659
QR 7903	UN 5112	8 945 705 664
QR 7904	UN 5213	8 945 705 659
QR 7905	UN 5213	8 945 705 659
QR 7906	UN 5213	8 945 705 659



VR 7901	10 kΩ	8 941 599 531
VR 7902	10 kΩ	8 941 599 531
VR 7903	500 kΩ	8 941 599 850

X 7901		8 946 193 426
X 7902		8 906 193 427

Timerplatine Timer C.B.A.

1	IR-Empfänger IR-Receiver	8 619 510 974
2	Knopf Knob	8 619 419 001
3	Schalterknopf SW Knob	8 619 510 931
4	Display-Halter Display holder	8 619 510 359

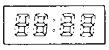
C 7501	30 pF	8 943 995 042

D 6701	PN 323 B (EN)	8 945 405 624
D 7503	MA 73	8 945 405 585
D 7504	MA 73	8 945 405 585
D 7508	MA 73	8 945 405 585
D 7511	MA 73	8 945 405 585
D 7512	MA 73	8 945 405 585
D 7513	MA 73	8 945 405 585
D 7514	MA 73	8 945 405 585
D 7515	MA 73	8 945 405 585
D 7516	MA 73	8 945 405 585
D 7517	MA 73	8 945 405 585
D 7518	LN 28 R CPPV (EN)	8 945 406 169
D 7519	LN 38 G CPPV	8 945 406 304
D 7520	LN 28 R CPPV	8 945 406 169
D 7521	LN 28 R CPPV	8 945 406 169
D 7523	SB 05-05 CP-TB	8 925 405 559

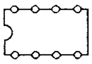
Ersatzteilliste

Spare Parts List

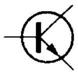
Position Position	Bezeichnung Designation		Bestell-Nr. Part no.
D 7524	MA 185		8 945 405 620
D 7525	MA 3075 H		8 945 421 307
D 7526	MA 4300 H		8 945 421 229
D 7533	MA 73		8 945 405 585
D 7534	MA 73		8 945 405 585
D 7537	MA 73		8 945 405 585
D 7538	MA 73		8 945 405 585
D 7539	MA 73		8 945 405 585
D 7540	MA 73		8 945 405 585
D 7541	MA 73		8 945 405 585
D 7542	MA 73		8 945 405 585
D 7544	MA 73		8 945 405 585
D 7545	LN 28 R CPPV	(EN)	8 945 406 169
D 7546	MA 73		8 945 405 585
D 7548	1 SS 254		8 945 405 979
D 7549	1 SS 254		8 945 405 979
D 7551	1 SS 254		8 945 405 979



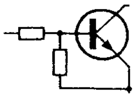
DP 7501			8 619 580 509



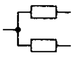
IC 6701	UPC 2800 GR	(EN)	8 945 903 403
IC 7501	MN 187164 VLCX		8 945 903 408
IC 7502	M 6 M 80021 P		8 945 903 332
IC 7503	MN 1280 S		8 945 902 705
IC 7504	MN 1280 L		8 945 901 543
IC 7505	BA 6810 S		8 945 902 437



Q 7502	2 SD 973 B-R		8 945 706 180



QR 7501	UN 2216		8 945 705 930
QR 7504	MRN 1404		8 945 706 094
QR 7506	MRN 2403		8 945 706 103
QR 7507	MRN 2403		8 945 706 103
QR 7508	MRN 2402		8 945 706 090



RX 7501			8 940 890 209
RX 7502			8 940 890 209
RX 7503			8 940 890 206

SW 7501			8 619 520 291
SW 7502		(EN)	8 619 520 291
SW 7503			8 619 520 291
SW 7504			8 619 520 290
SW 7505			8 619 520 290

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
SW 7506		8 619 520 291

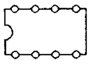
TR 7501		8 619 530 236

VR 7502		8 941 599 848
VR 7503		8 941 599 849

X 7501		8 946 193 425
X 7502		8 906 193 053

Bedienteilplatine
Operation C.B.A.

D 6501	LN 28 RCPX 2 T 12	8 945 406 303



IC 6502	VCR 0172	8 945 901 138

J 6301		8 619 520 633

SW 6501		8 619 520 211
SW 6502		8 619 520 211

Netzteilplatine
Power C.B.A.

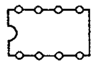
C 1102	0,1 µF 250 V	8 942 210 511
C 1103	68 µF 400 V	8 943 499 290

D 1102	S1 WBA 60 S	8 945 405 846
D 1103	AP 01 C	8 945 405 930
D 1104	MA 4200 H	8 945 421 476
D 1105	MA 723 VT	8 925 405 557
D 1106	MA 178	8 945 405 619
D 1107	AU 01 ZV 2	8 945 406 372
D 1108	MA 185	8 945 405 620
D 1109	30 DF 2	8 945 406 373
D 1110	31 DQ 04 FC 6	8 945 405 933

Ersatzteilliste

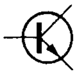
Spare Part List

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.



IC1101	STRS 6545 LF	8 945 903 429
IC1102	SI 3120 C	8 945 903 430
IC1103	UPC 1093 J	8 945 903 431

L 1101		8 619 437 033
L 1102		8 619 530 072
L 1103		8 619 530 072
L 1104	100 µH	8 948 411 515
L 1105	100 µH	8 948 411 515
L 1106		8 948 411 516
L 1107		8 619 439 050
L 1111	(EGC)	8 619 437 010
L 1111	(EV/EN)	8 619 437 033



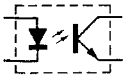
Q 1101	PS 2561 L 1-1-M	8 945 903 143

R 1102	68 kΩ 3 W (EGC)	8 940 599 260
R 1131	2,2 Ω 2 W	8 940 599 567
R 1132	330 kΩ 0,5 W	8 940 599 619

T 1101		8 619 530 237

Laufwerk-Verbindungsplatine
Mech. Connection C.B.A.

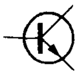
1	Flachkabel Flex. cable	8 619 580 573



2	ON 2170-RLF	8 945 902 142

Abwickel-Tr.-Platine
Photo Tr.(S) C.B.A.

1	Halter Phototr. holder	8 619 316 198

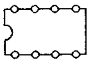


Q 1401	2 SC 3311-R	8 925 705 461
Q 1501	PN 150 NVS	8 945 706 140

T 1401		8 619 434 200

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.

Kopftrommel-Treiberplatine
Cylinder Drive C.B.A.

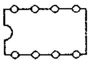


IC 2901	AN 3814 K	8 945 901 991

R 2901	0,68 Ω 0,5 W	8 940 599 175

TH 2901		8 940 599 702

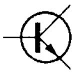
Kopfverstärkerplatine
Head Amp. C.B.A.



IC 501	AN 3337 SB	8 925 900 862
IC 551	BA 7743 FS	8 945 903 108

Aufwickel-Tr.-Platine
Photo Tr.(T) C.B.A.

1	Halter Phototr. holder	8 619 316 198



Q 1502	PN 150 NVS	8 945 706 140

Hinweis:
Handelsübliche Kondensatoren und Widerstände sind in der Ersatzteilliste nicht aufgeführt. Wir bitten Sie, diese Teile im Fachhandel zu beziehen.

Note:
Capacitors and resistors usual in trade are not mentioned in the spare parts list. Kindly buy these parts from the specialized trade.

(2) To install the chip part,hold in position using tweezers, apply heat to the pre-soldered portions using a fine tip soldering iron.
(3) Solder the other side of the chip part.
(4) Check your soldering.

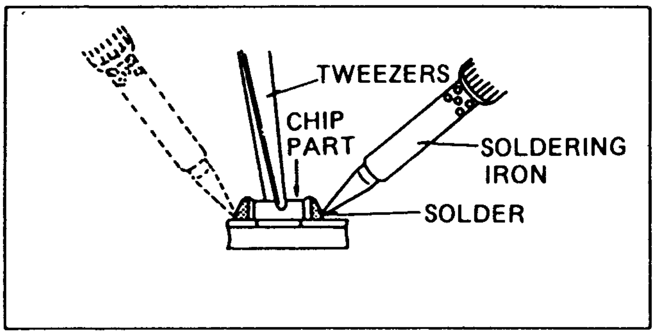

TWEEZERS
CHIP PART
SOLDERING IRON
SOLDER

FIG. G7

1-3. HOW TO REMOVE THE FLAT-IC

(WITH HOT-AIR FLAT-IC DESOLDERING MACHINE)

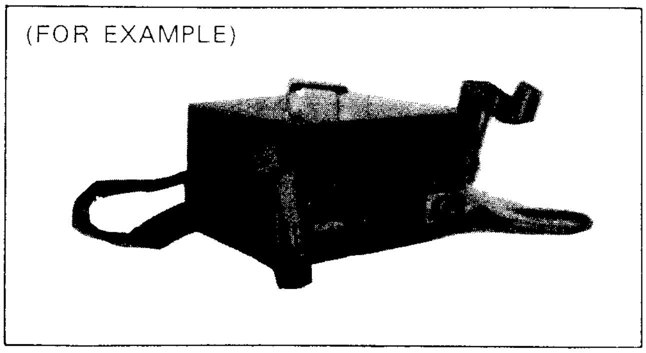

(FOR EXAMPLE)

FIG. G8

(1) Prepare the HOT-AIR FLAT-IC DESOLDERING MACHINE. And then apply hot air to FLAT-IC about 5 ~ 8 seconds.

(2) Remove the FLAT-IC with tweezers while applying the hot air.

Caution: Do not supply the hot air to the chip parts around the Flat-IC for long time as as damage may occur to the chip parts around the Flat -IC.

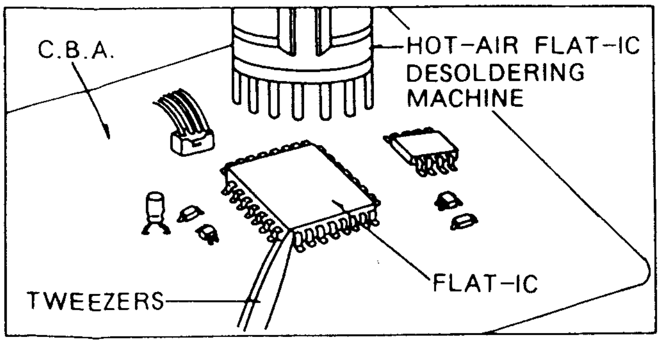

C.B.A.
HOT-AIR FLAT-IC DESOLDERING MACHINE
FLAT-IC
TWEEZERS

FIG. G9

(WITH SOLDERING IRON)

(1) Using solder braid remove the solder from all pins of the Flat-IC.
When you use the solder flux which is applied to all pins of the Flat-IC,you can remove it easily.

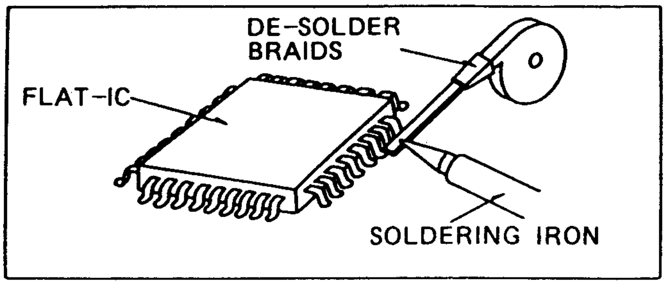

DE-SOLDER BRAIDS
FLAT-IC
SOLDERING IRON

FIG. G10

(2) Lift each lead of the Flat-IC upward one by one using a sharp pin or non solder wire(iron wire),while heating the pins using a fine tip soldering iron or a hot air blower.

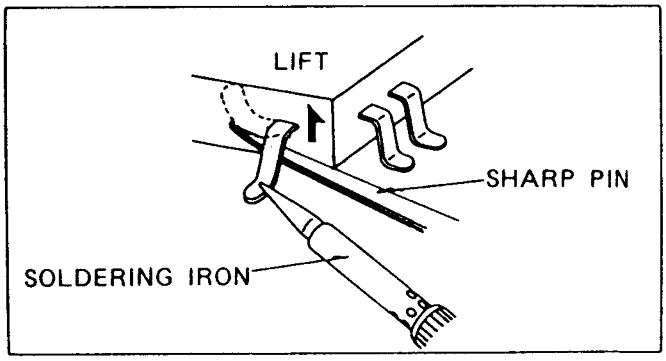

LIFT
SHARP PIN
SOLDERING IRON

FIG. G11

(WITH IRON WIRE)

(1) Affix the wire to workbench or solid mounting point as shown in FIG.G12.
(2) Pull up wire as the solder melts so as to lift the IC lead from the PCB contact pad,while heating the pins using a fine tip soldering iron or hot air blower.

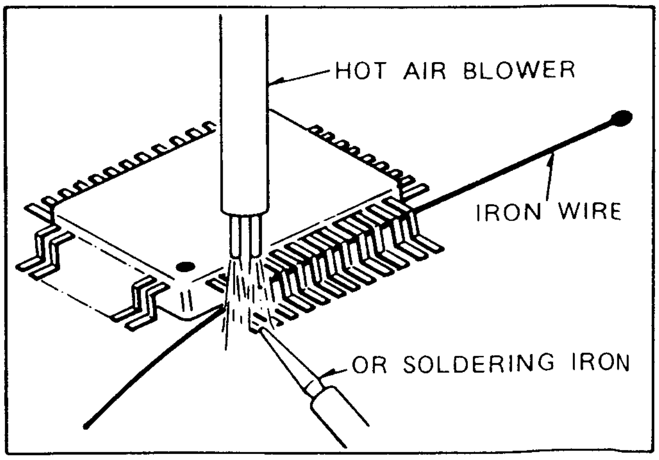

HOT AIR BLOWER
IRON WIRE
OR SOLDERING IRON

FIG.G12

Note: When using a soldering iron care must be taken to ensure that the Flat IC is not being held by glue before it is the PCB may be damaged if force is used.

SECTION 1

GENERAL DESCRIPTIONS

1-1. FEATURES

1. High-Response Mechanism. (G1-Revised)
   In order to achieve the quick operation. Dual-mode Loading Stop System is introduced on this G1-Revised Mechanism as G2 mechanism. (Microprocessor is also changed comparing with G1.) Response times are slightly increased as following table Fig.F1.

CHASSIS No.	G1	G1-REV.	G2
Scene access time from Cassette-IN (Sec.)	10	5.8	5.7
Scene access time from STOP 1 (Half-loading stop) (Sec.)	5.7	3.9	3.6
Scene access time from STOP 2 (Full-loading stop) (Sec.)	---	0.8	0.8
Scene access time from FF/REW (Sec.)	(F)7.6/(R)7.2	(F)4.6/(R)4.3	4.5
Mode switch time from PLAY to REVIEW (Sec.)	2.5	2.1	0.5
Mode switch time from PLAY to FF/REW (Sec.)	(F)9.2/(R)7.0	(F)8.2/(R)5.2	4.6
Mode switch time from STOP 1 to FF/REW (Sec.)	(F)3.3/(R)4.1	(F)3.3/(R)4.1	0.5
Mode switch time from PLAY to EJECT (Sec.)	8.8	5.9	6.3
CUE/REV SPEED (SP mode)	X7	X9	X9

Fig. F1 Mechanism Response Time
(Indicated times are approximately)

2. NTSC Playback and Dubbing Functions.
   Tape recorded in the NTSC system can be played back with this VTR via a PAL system TV.
   By using two VTRs which have "NTSC 4.43" switch, NTSC system can be copying by 4.43 NTSC system.
   The copyed tape can be played back with this VTR via the PAL system TV.

3. Auto Operation.
   Four convenient automatic playback operations can be activated simply by pressing a single button on the remotecontroller.
   1. Repeat Playback
   2. Memory Playback
   3. Sleep Playback
   4. Rewind Playback

   Moreover, another auto operation can be activated automatically.

   Auto VTR On
   When a cassette is inserted, the VTR turns itself on automatically.

   Auto Play
   When inserting a video cassette which has the erasure prevention tab removed playback will start automatically.

   Auto Rewind
   When the tape reaches its end during recording (except OTR and timer recording) or playback, it will automatically be rewound to the beginning.

   VTR-Off Eject
   When the VTR is off, the inserted cassette can be ejected simply by pressing the Eject Button, and VTR will automatically turn itself off again.

   Auto Head Cleaning Function
   This VTR features a special function that automatically removes tape particles and dust from the video heads to ensure continuously superior picture quality. While the Head Cleaning Function is working, some noise may be reproduced. However, this is no malfunction.

4. Another Functions.
   1. Audio dubbing
   2. VHS index Search System
   3. Intro Scan Function
   4. Time Search Function.
   5. Timer Recording programme by using Remote Controller.

1-2. TECHNICAL INFORMATION

INITIALIZATION OF CHANNEL MEMORY IC (IC7502/M6M80021P)

When replace the channel memory IC (IC7502/M6M80021P), the memory IC should be initialized to keep formal specification.

Note:

1) It should be performed before tuner preset.
2) During initialization or after initialization within 1 second, do not stop the power source. (Do not disconnect AC cord.)
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH". In another to say the number of POSITION CH and DISPLAY CH to be same.

Method:

1) Press the CH UP/DOWN Button so that the Channel indicator indicates "– –".
2) Connect the Diode (MA165) to Pin 54 of IC7501 for Anode, Pin 35 of IC7501 for Cathode twice.
3) Channel indication disappears, and approximately 3 seconds later Channel indicator indicates "1".

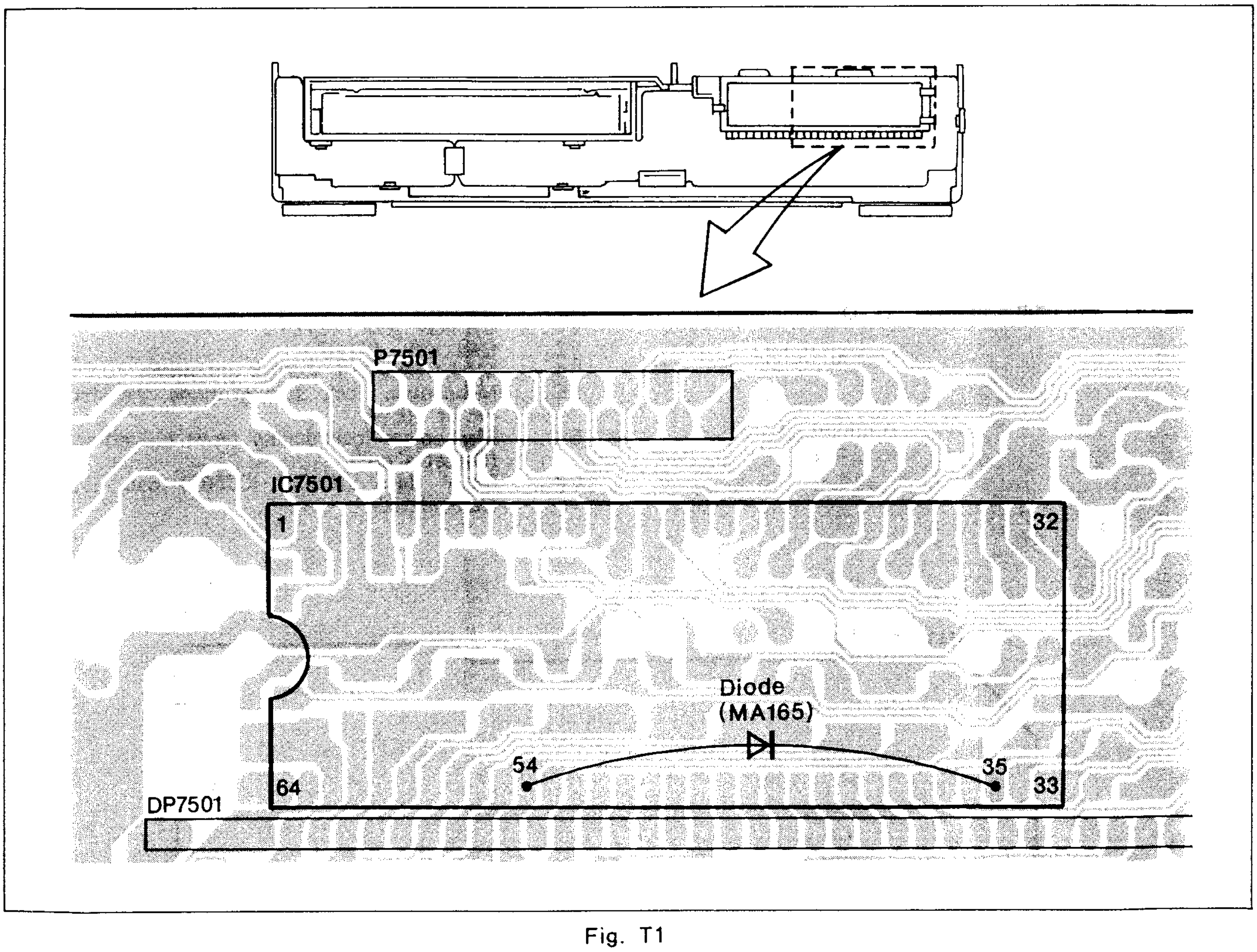


Fig. T1

SERVICE NOTE

When repairing without the top panel unit, Tape Select Switch must be set to the E195 position to prevent the malfunction of the Take-Up Photo Sensor.

SERVICE INFORMATION DISPLAY

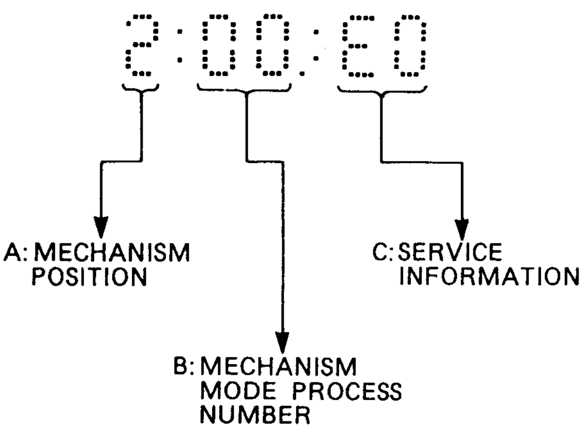
This unit can be confirm the mode information which is detected by microprocessor IC6001 via multi function display.

Method:

1) Press "EJECT", "FF" and "REW" keys at the same time.
2) The counter of multi function display indicates microprocessor data approximately 20 seconds as shown in Fig.T2.

NOTE:

1) This mode can be entred Power off.
2) Also it can be displayed the data when connect jumper wire between TPSERV and TPGND2. In this case the data is indicated still open the TPSERV.


2:00:E0
A: MECHANISM POSITION
C: SERVICE INFORMATION
B: MECHANISM MODE PROCESS NUMBER

A: MECHANISM POSITION

2: EJECT
3: :
4: STOP 1
5: :
6: STOP 2
7: :
8: PLAY
9: :
U: REV

B: MECHANISM MODE PROCESS NUMBER
Number is changed by depending on mode movement.

C: SERVICE INFORMATION
E0..... Normal.
E1..... Cylinder lock. (STOP)
E2..... Reel lock. (STOP)
E4..... Mechanism lock during unloading.
E5..... Mehcanism lock during mode transfer to FF or REW.
E6..... Mechanism lock during front unloading. (Cassette out)
E9..... Serial data (IC6001−IC7501) can not be transmitted.

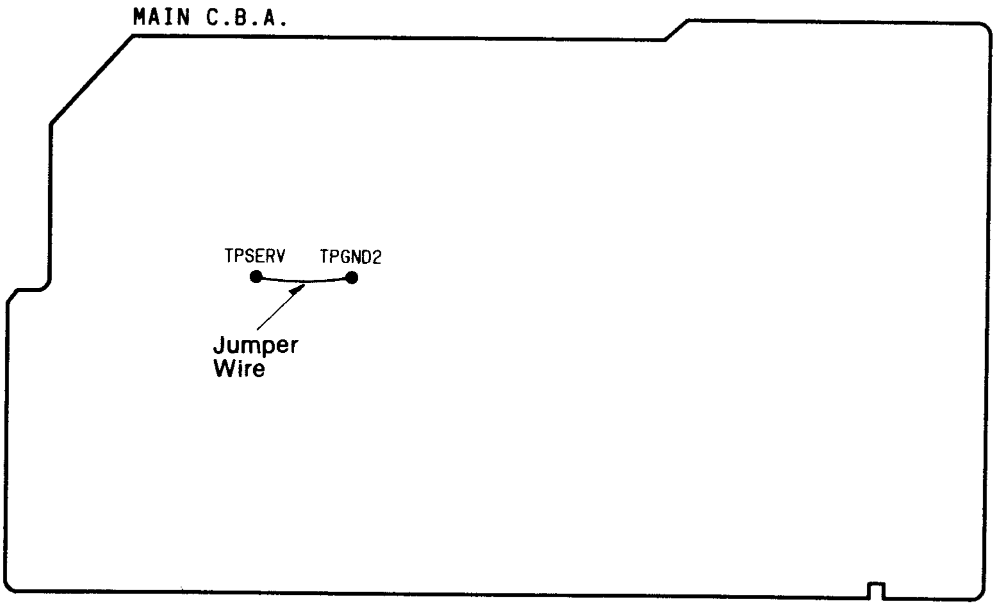
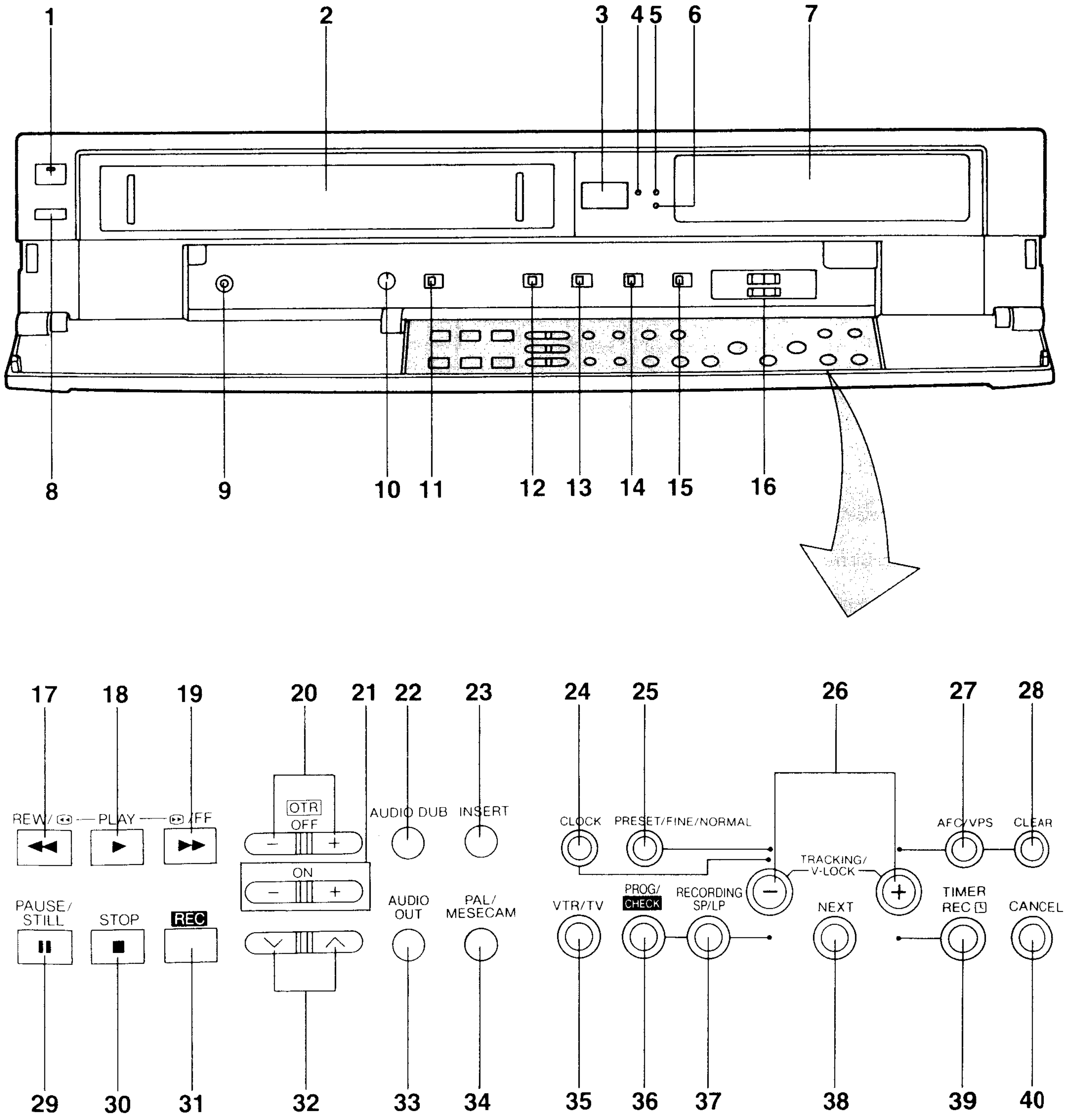

MAIN C.B.A.
TPSERV
TPGND2
Jumper Wire

Fig. T2

1-3. CONTROLS AND COMPONENTS

FRONT


1
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19
20
21
22
23
24
25
26
27
28
REW/
PLAY
/FF
OTR
OFF
ON
AUDIO DUB
INSERT
CLOCK
PRESET/FINE/NORMAL
TRACKING/
V-LOCK
AFC/VPS
CLEAR
PAUSE/
STILL
STOP
REC
AUDIO
OUT
PAL/
MESECAM
VTR/TV
PROG/
CHECK
RECORDING
SP/LP
NEXT
TIMER
REC
CANCEL
29
30
31
32
33
34
35
36
37
38
39
40

1 VTR On/Off Switch with Indicator

2 Cassette Compartment

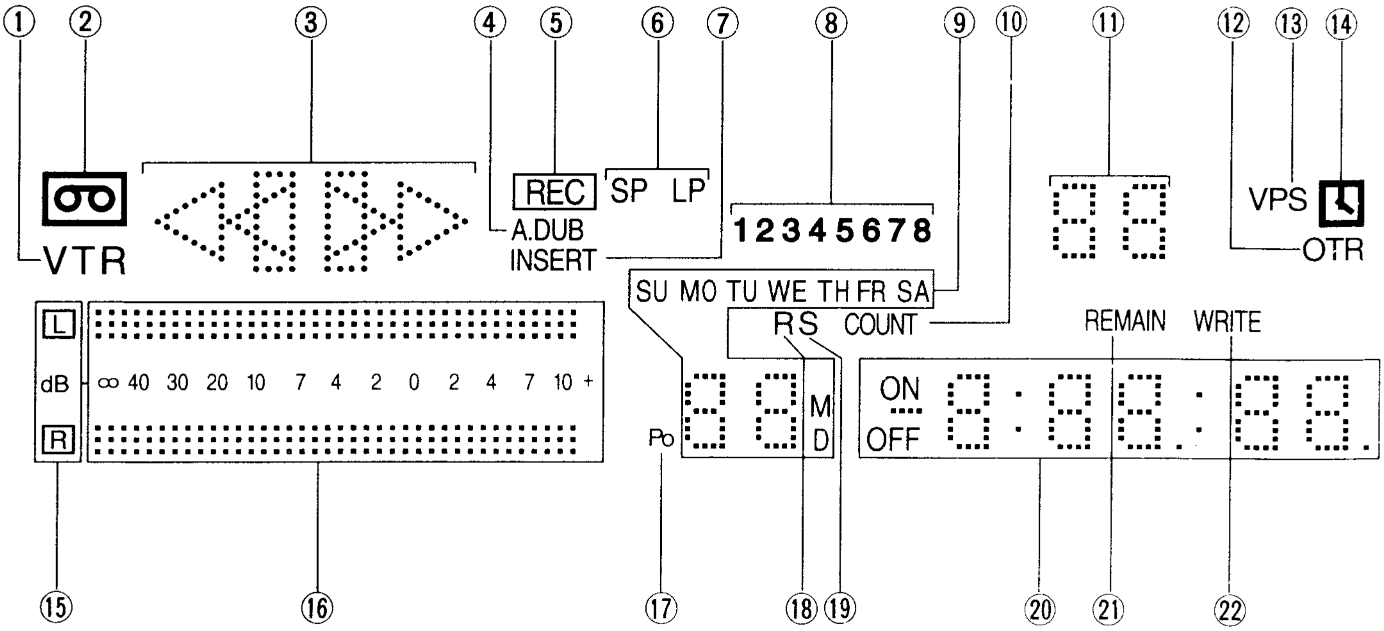
3 Infra-red Remote Control Receiver

4 Bilingual Indicator

5 Stereo Indicator

6 MESECAM Indicator

7 Multi-Function Display



①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
VTR
REC
SP LP
A.DUB
INSERT
12345678
VPS
OTR
SU MO TU WE TH FR SA
RS COUNT
REMAIN WRITE
L
dB
R
∞ 40 30 20 10 7 4 2 0 2 4 7 10 +
Po
M
D
ON
OFF
⑮
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⑰
⑱
⑲
⑳
㉑
㉒

① VTR Indicator

② Cassette-in Indicator

③ Tape Running Display

④ Audio Dubbing Indicator

⑤ Recording Indicator

⑥ Tape Speed Indicator

⑦ Insert Editing Indicator

⑧ Timer Programme Number

⑨ Date Display

⑩ Counter Mode Indicator

⑪ Channel Display

⑫ OTR Indicator

⑬ VPS Indicator

⑭ Timer Recording Indicator

⑮ Audio Output Mode Indicators

⑯ Audio Level Meter

⑰ Position Indicator

⑱ Repeat Indicator

⑲ Search Indicator

⑳ Clock/Counter Indicator

㉑ Remaining Tape Time Indicator

㉒ Write Indicator

8 Eject Button (▲)

9 Microphone Input Socket

10 Picture Sharpness Control

11 Hi-Fi/Normal Mix Switch

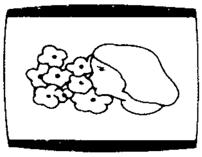
12 NTSC 4.43 Switch

When dubbing an NTSC system tape, set the NTSC 4.43 Switches on both the recording and playback VTR to "ON".

- When the NTSC 4.43 Switch is set to "ON", PAL signals cannot be recorded correctly.

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.



- Set the NTSC 4.43 Switch to the "OFF" position. When a tape is played back after setting the Switch to "ON", the colours will be reproduced correctly only if an 4.43 MHz NTSC system TV is used.

- Depending on the TV set used, the picture may shrink vertically and black bars may appear both at the top and bottom of the screen.This is not an indication of a malfunction.
- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control. However, TV sets not equipped with a V-HOLD control cannot correct this condition.
- When playing back a tape recorded in the NTSC system SLP mode, the "LP" Indication will light up in the Multi-Function Display.
- The special playback functions (except normal playback) cannot be used for NTSC playback. This is not an indication of a malfunction.
- Recording in the NTSC 3.58 system is not possible with this VTR. Insert editing and audio dubbing also would not function correctly, so please do not operate these functions.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

13 Noise Filter/Edit Selector

EDIT ON: For editing operations such as dubbing.
OFF: For ordinary use of the VTR.
NOISE FILTER ON: For playback of tapes with inferior picture quality caused, for example, by repeated dubbing.

- When the Noise Filter/Edit Selector is set to "EDIT ON", the picture sharpness cannot be adjusted with the Picture Sharpness Control.

14 Tape Select Switch

To obtain a correct Remaining Tape Time indication when using an NV-E240 video cassette tape, this switch must be set to the "E240" position.
When using NV-E30, 60, 90, 120, 180 or 195 video cassette tapes, set this switch to the "~E195" position.
When using an NV-E260 video cassete tape, set this switch to the "E260" position.
If cassettes with other tape lengths than the above are used, the Remaining Tape Time indication will not be precise.

15 Remote Control Mode Select Switch

16 Hi-Fi Rec Level Controls

17 Rewind ◀◀/Review (◀◀) Button

18 Play Button (▶)

19 Fast Forward ▶▶/Cue (▶▶) Button

20 OTR Off Buttons

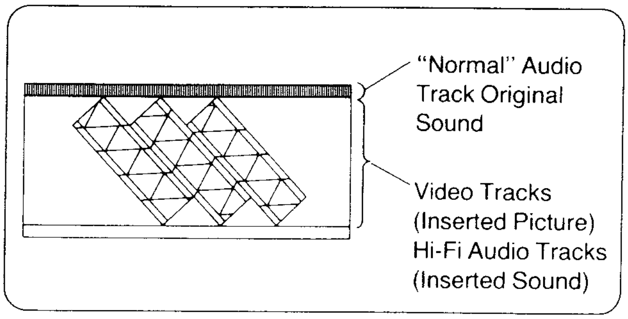
21 OTR On Buttons

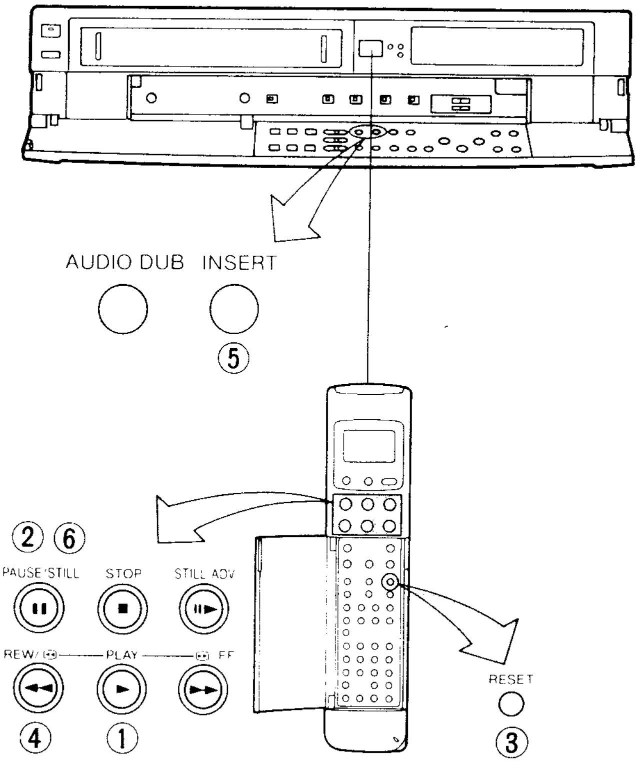
22 Audio Dubbing Button

23 Insert Editing Button

When this type of editing is done, the picture and the sound are recorded on the tape as shown below. However, if no new sound is input, the original sound remains only on the "normal" audio track of the tape because the original Hi-Fi sound will always be erased during insert editing.
By performing insert editing together with audio dubbing, the sound on the "normal" audio track can also be replaced at the same time.

Video and Audio Track Recording Pattern


"Normal" Audio Track Original Sound
Video Tracks (Inserted Picture)
Hi-Fi Audio Tracks (Inserted Sound)



Preparation

- Insert a video cassette with the erasure prevention tab intact.
- When performing insert editing from another VTR, set the Noise Filter/Edit Selector to "EDIT ON".
- Press the Input Signal Selector on the Remote Controller to select the programme position according to the type of insert editing to be performed.(Or select with the Channel Up or Down Button on the VTR.)
  1~99: When inserting picture and sound from a TV programme.

A1: When inserting picture and sound from equipment connected to the Euro AV Socket.
A2: When inserting picture and sound from equipment connected to the Video Input Socket and the Audio Input Socket.

① Press the Play Button (▶).

② Locate the tape position where you want the insert editing to end, and press the Pause/Still Button to put the VTR into the still playback mode.

③ Press the Reset Button (Remote Controller) to reset the Tape Counter to "0:00.00".

④ Perform review playback to locate the tape position where you want the insert editing to start and put the VTR into the still playback mode.

⑤ Press the Insert Editing Button.
(The Insert Editing Indicator lights up.)
If you want to replace the sound on the "normal" audio track, too, press the Audio Dubbing Button.
(The Audio Dubbing Indicator lights up.)

⑥ After the picture to be inserted is prepared, press the Pause/Still Button (❚❚).
(The insert editing will start.)
- The insert editing will end at the point where the Tape Counter indicates "0:00.00", and the editing VTR will stop in the still playback mode.

Playback of a Tape on Which Insert Editing Was Performed

The sound inserted during insert editing is recorded on the Hi-Fi sound tracks (STEREO, LEFT, RIGHT). If the normal sound track is selected, the original sound before the insert editing will be heard. Select the desired sound with the Audio Output Mode Selector.

Hi-Fi/Normal Mix Switch
Set this switch to "On", if you want both the "Hi-Fi" sound and the "normal" sound to be played back mixed together.
- The mixed sound may not be very clear.
  Always set this switch to "Off", except when playing back a tape on which the insert editing or audio dubbing was performed.

- It is not necessary to operate the Tape Speed Selector.
- The picture quality of an inserted part is always somewhat inferior to that of the original.
- Avoid performing insert editing repeatedly on the same part of the tape because the picture quality of that part becomes inferior.
- The inserted picture may contain slight colour noise or the colours may be unstable.
- If insert editing is performed on a tape recorded in the NTSC system, the insert editing function will not work correctly.

24 Clock Button

25 Preset/Fine/Normal Button

26 Tracking/V-Lock "+" and "−" Buttons
If vertical jitter occurs, adjust with the V-Lock "+" or "–" Button during Still playback.
- When the AC Mains Lead is unplugged or a power failure occurs, perform the vertical lock adjustment again.

27 AFC/VPS Button

28 Clear Button

29 Pause/Still Button (❚❚)

30 Stop Button (■)

31 Record Button

32 Channel Selection Up and Down Buttons

DBS (NV-F55EG)

The DBS satellite channels can be memorized on the programme positions 90–99.
When a Pay TV or Satellite TV (PAL) Decoder (descrambler) is connected to the VTR, and a programme position between 90 and 99 is selected, the picture of the selected DBS broadcast appears on the TV screen.
(Model NV-F55EV is not equipped with this function.)
- However, the output signal of the TV tuner in the VTR will in this case be output from pin 19 (VIDEO OUT) of the Euro AV Socket.

33 Audio Output Selector Button

34 PAL/MESECAM Selector
This selector should be set according to the colour TV system used during recording and playback.
When the MESECAM Indicator is lit, the MESECAM system is selected.

35 VTR/TV Selector

36 Programme/Check Button

37 Tape Speed Selector

38 Next Button

39 Timer Record Button

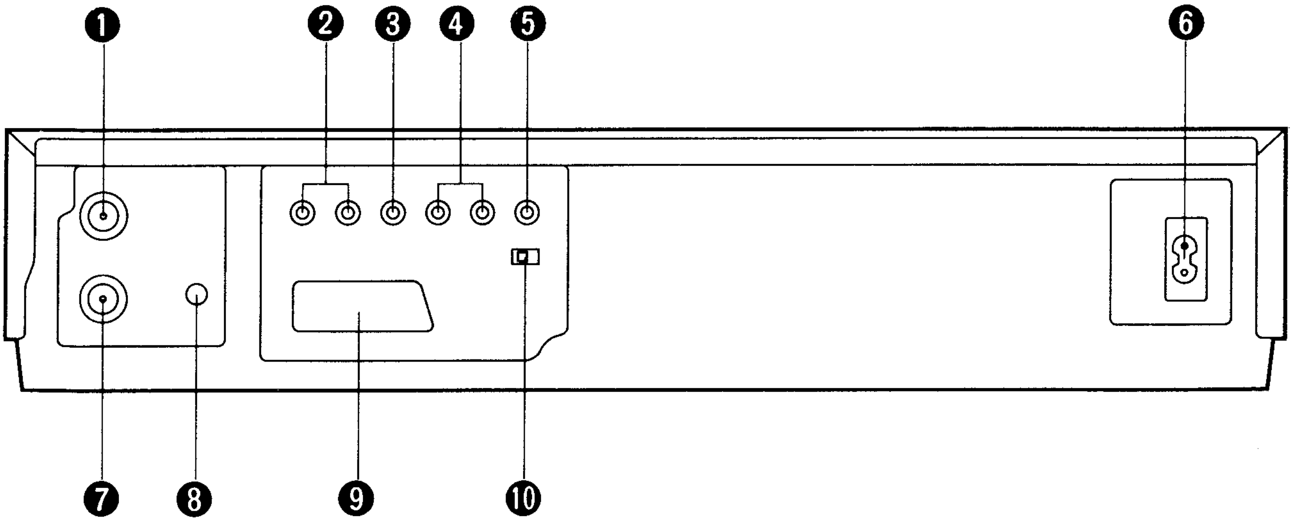
40 Cancel Button
Make sure that:
the VTR is turned on,
the Timer Record Function is set to "Off".

① Press the Programme/Check Button repeatedly, until the number of the timer programme that you want to cancel is displayed.

② Press the Cancel Button.

- During recording, the programme position (channel) on the VTR cannot be changed.
- When you want to watch TV after setting a timer recording, select the desired channel on the TV set.
- To cancel a timer recording during recording, set the Timer Record Function to "Off".
- It is impossible to confirm programmes of timer recordings while an OTR is being performed.
- To turn the VTR on and use it for playback or recording before the timer recording is performed, set the Timer Record Function to "Off".
- When the Timer Record Function is set to "On" with no video cassette or a video cassette with broken tab inserted, the "📼" and "⏲" indications will flash. The "⏲" indication will also flash, when programming is not completely finished. While it is flashing, an alarm sound will be produced to indicate that recording is not possible.
- If a timer recording is not performed to the end (not enough tape or cancelled by the user), the programmed timer recording data will be cancelled from the memory at 4 a.m. two days later. However, if the Timer Record Function is activated or an OTR recording is being performed at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

REAR



❶ RF Output Socket

❷ Audio Input Sockets (AV2)

❸ Video Input Socket (AV2)

❹ Audio Output Sockets

❺ Video Output Socket

❻ AC Mains Lead Socket

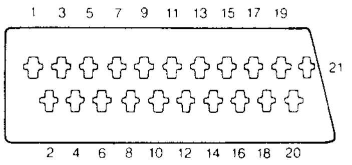
❼ RF Input Socket

❽ Video Playback Channel Adjustor

❾ Euro AV Socket (AV1)

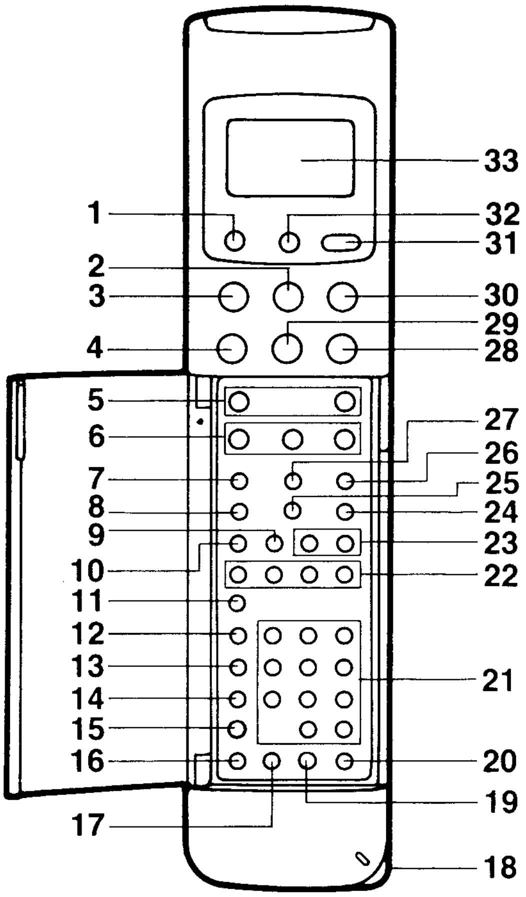
❿ Test Signal Switch

Connections of the Euro AV Socket

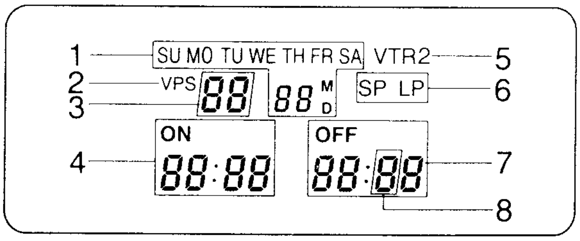


1	AUDIO OUTPUT CH2 (R)	11	No connection
2	AUDIO INPUT CH2 (R)	12	No connection
3	AUDIO OUTPUT CH1 (L)	13	No connection
4	AUDIO GND	14	No connection
5	No connection	15	No connection
6	AUDIO INPUT CH1 (L)	16	No connection
7	No connection	17	VIDEO GND
8	SWITCHING VOLTAGE	18	No connection
9	No connection	19	VIDEO OUTPUT
10	No connection	20	VIDEO INPUT
		21	GND

1-4. INFRA-RED REMOTE CONTROLLER



1 **VTR On/Off Button**
2 **Stop Button (■)**
3 **Pause/Still Button (❚❚)**
4 **Rewind ◀◀/Review [◀◀] Button**
5 **Record Buttons**
6 **Slow Buttons**
7 **Clock/Counter Selector**
8 **Monitor Button**
9 **Time Search Button**
10 **Index Button**
11 **Audio Output Selector**
12 **Programme Button**
13 **Next Button**
14 **Tape Speed Selector**
15 **VPS Button**
16 **Timer Record Button**
17 **Cancel Button**
18 **Bar Code Reading Section**
19 **PAL/MESECAM Selector**
20 **Remote Control Mode Select Button**
21 **Programme Position (Channel) Selector Buttons**
22 **Auto Play Buttons**
23 **Tracking/V-Lock "+" and "−" Buttons**
24 **Input Signal Selector**
25 **VTR/TV Selector**
26 **Reset Button**
27 **Tape Remain Button**
28 **Fast Forward ▶▶/Cue [▶▶] Button**
29 **Play Button (▶)**
30 **Still Advance Button (❚▶)**
31 **Transmit Button**
32 **Digital Scanner On/Off Button**
33 **Display**



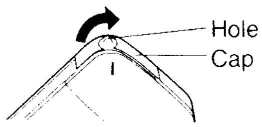
1 Date Display
2 VPS Indicator
3 Channel Display
4 Start Time Display
5 Remote Control Mode Indicator
6 Tape Speed Indicator
7 End Time Display
8 Check Indicator

When the Bar Codes Cannot be Read
Although the lamp in the tip of the Bar Code Reading Section lights up:
- No figures appear in the Display
- No beep sounds is heard;

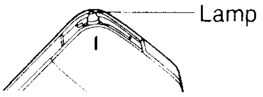
The tip of the Bar Code Reading Section is probably clogged with dirt.

Cleaning

1 Remove the cap of the Bar Code Reading Section.
- Remove dirt and dust from the hole of the cap.



2 Gently wipe the tip of the lamp with a soft cloth.
- Reattach the cap by inserting it until it locks with a click.



SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When resembling, perform the steps in the reverse order.

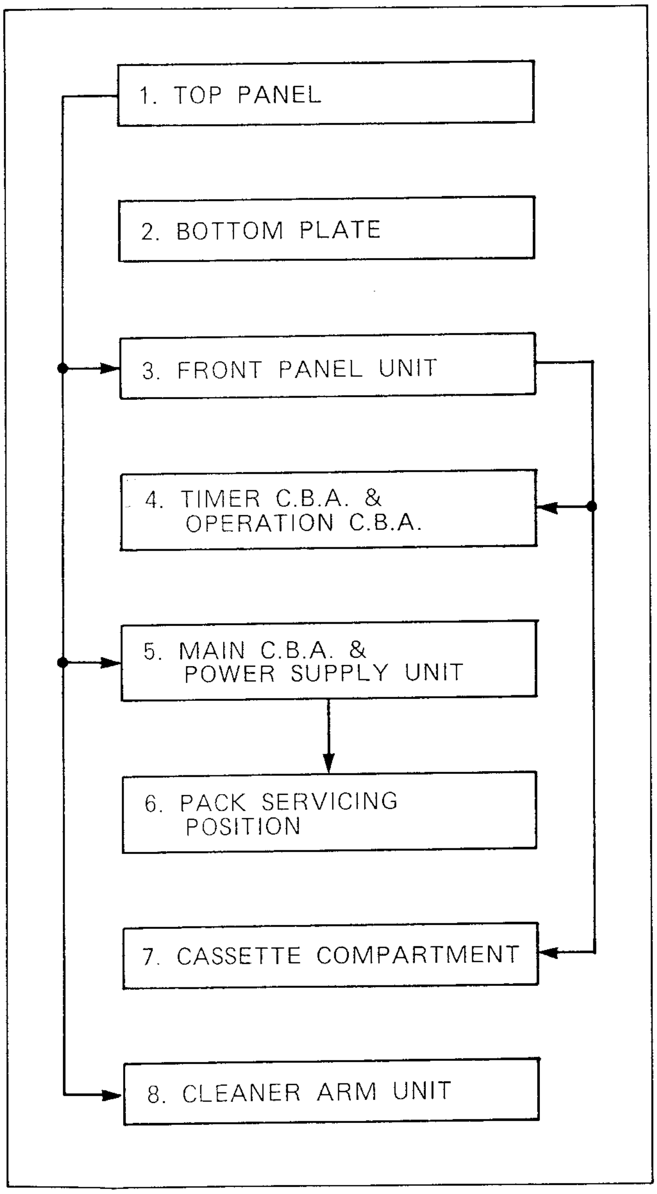

1. TOP PANEL
2. BOTTOM PLATE
3. FRONT PANEL UNIT
4. TIMER C.B.A. & OPERATION C.B.A.
5. MAIN C.B.A. & POWER SUPPLY UNIT
6. PACK SERVICING POSITION
7. CASSETTE COMPARTMENT
8. CLEANER ARM UNIT

Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove...4 Screws(A)

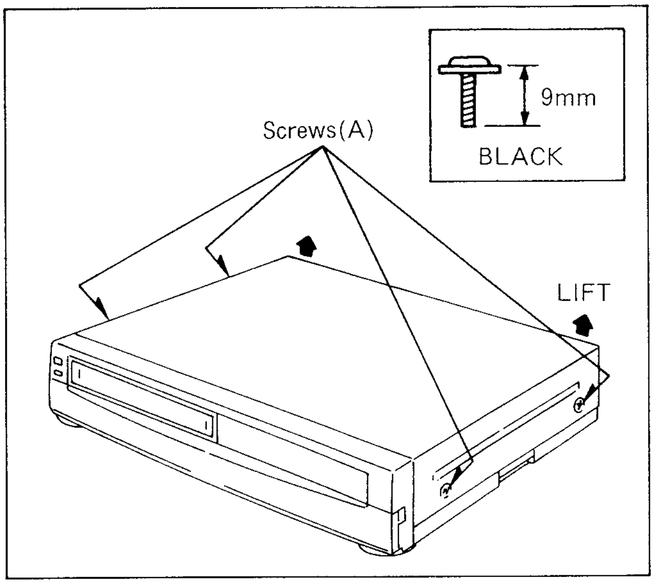

Screws(A)
9mm
BLACK
LIFT

Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove...6 Screws(B)

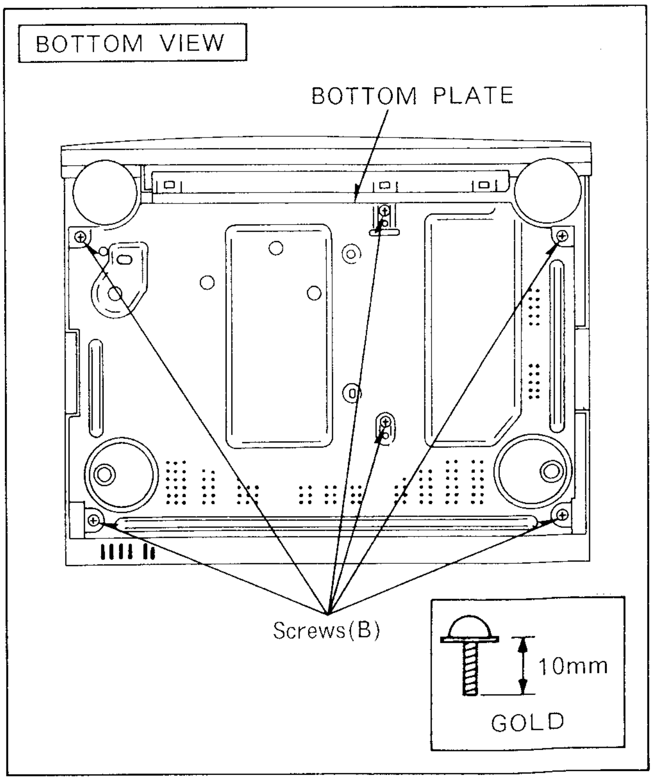

BOTTOM VIEW
BOTTOM PLATE
Screws(B)
10mm
GOLD

Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove...Screw(C)
Unlock...8 Tabs(D)
Disconnect...Connector(E)

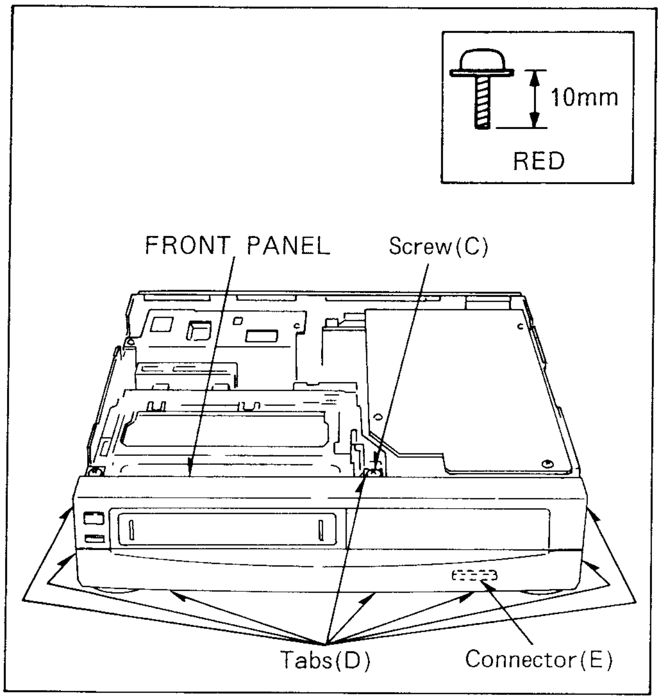

10mm
RED
FRONT PANEL
Screw(C)
Tabs(D)
Connector(E)

Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & OPERATION C.B.A.

REMOVAL OF THE TIMER C.B.A.

Disconnect...Bridge Connector(F)
Unlock...3 Tabs(G)

REMOVAL OF THE OPERATION C.B.A.

Disconnect...Bridge Connector(F)
Unlock...2 Tabs(H)

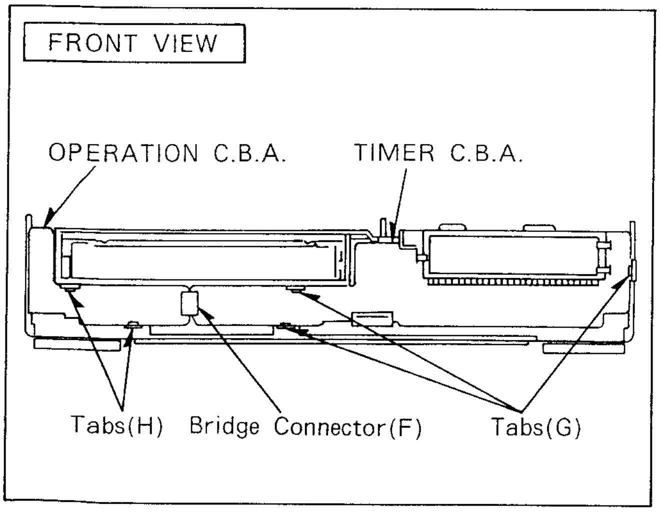

FRONT VIEW
OPERATION C.B.A.
TIMER C.B.A.
Tabs(H)
Bridge Connector(F)
Tabs(G)

Fig. D5

5. REMOVAL OF THE MAIN C.B.A. & POWER SUPPLY UNIT

REMOVAL OF THE MAIN C.B.A.

Remove...Screw(I)
Remove...2 Screws(J)
Remove...2 Screws(K)

REMOVAL OF THE POWER SUPPLY UNIT

Remove...2 Screws(L)
Remove...Screw(M)

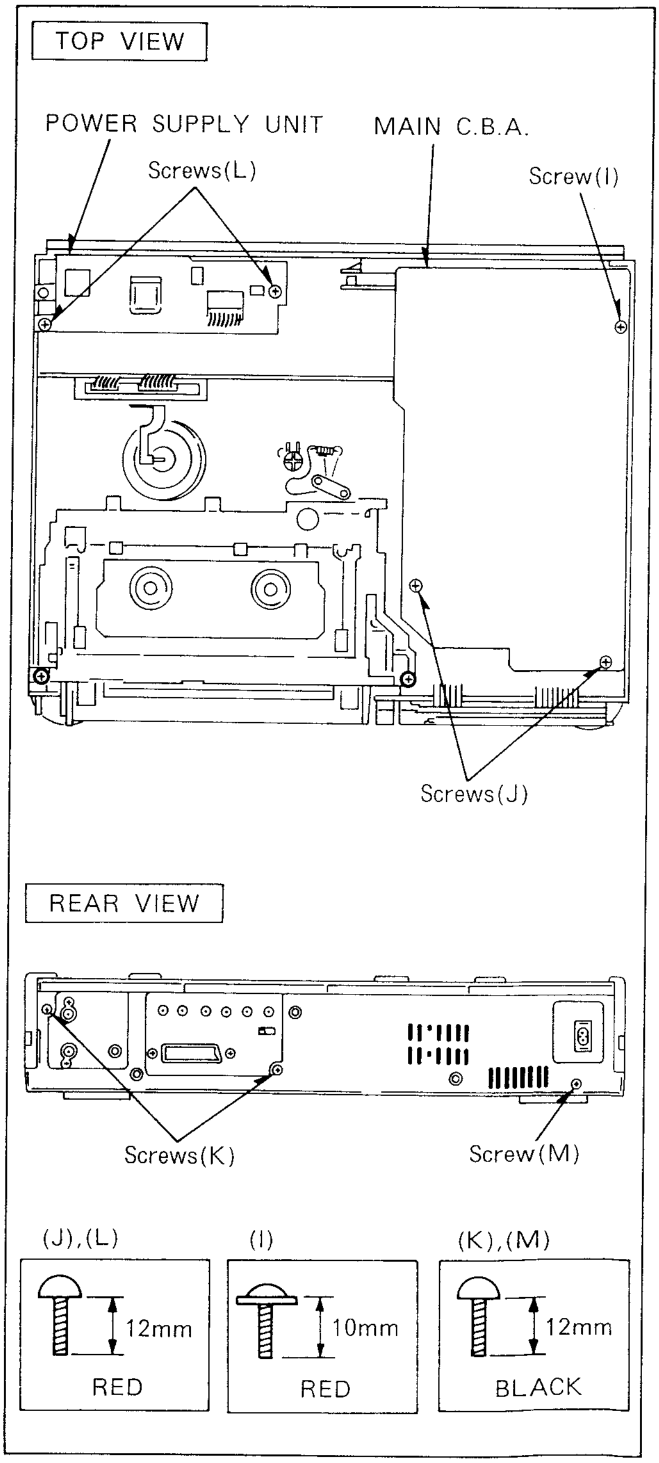

TOP VIEW
POWER SUPPLY UNIT
MAIN C.B.A.
Screws(L)
Screw(I)
Screws(J)
REAR VIEW
Screws(K)
Screw(M)
(J),(L)
12mm
RED
(I)
10mm
RED
(K),(M)
12mm
BLACK

Fig. D6

6. PACK SERVICING POSITION

CAUTION:
Confirm that the isolation between Mechanical Chassis and Main C.B.A. before connecting Main AC.

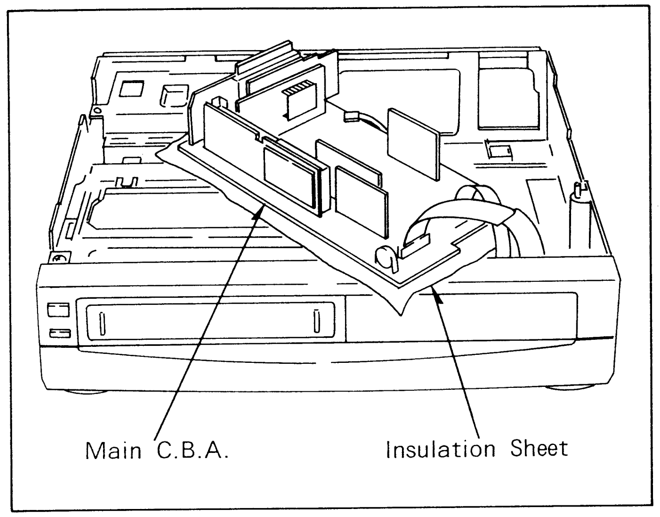

Main C.B.A.
Insulation Sheet

Fig. D7

7. REMOVAL OF THE CASSETTE COMPARTMENT

Remove the 2 screws(N) and for screw(P).
Slide the cassette holder unit for appearing 2 screws(O) by turning(clockwise) the Capstan Rotor Unit(located in the bottom side as shown in Fig.D9) and remove the 2 screws(O).
Remove the wire cable from connector P1508 mounted on Take–up Photo Tr. C.B.A., then carefully pull out the Cassette Compartment.

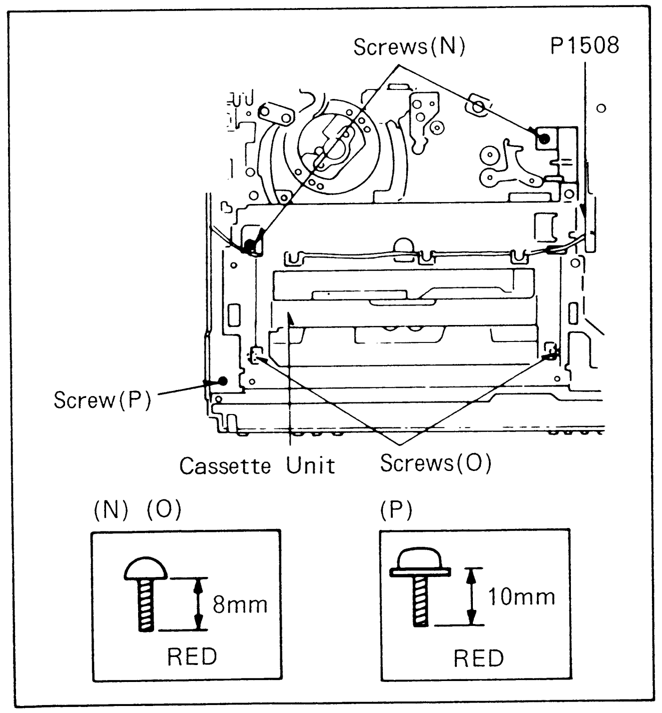

Screws(N)
P1508
Screw(P)
Cassette Unit
Screws(O)
(N) (O)
8mm
RED
(P)
10mm
RED

Fig. D8

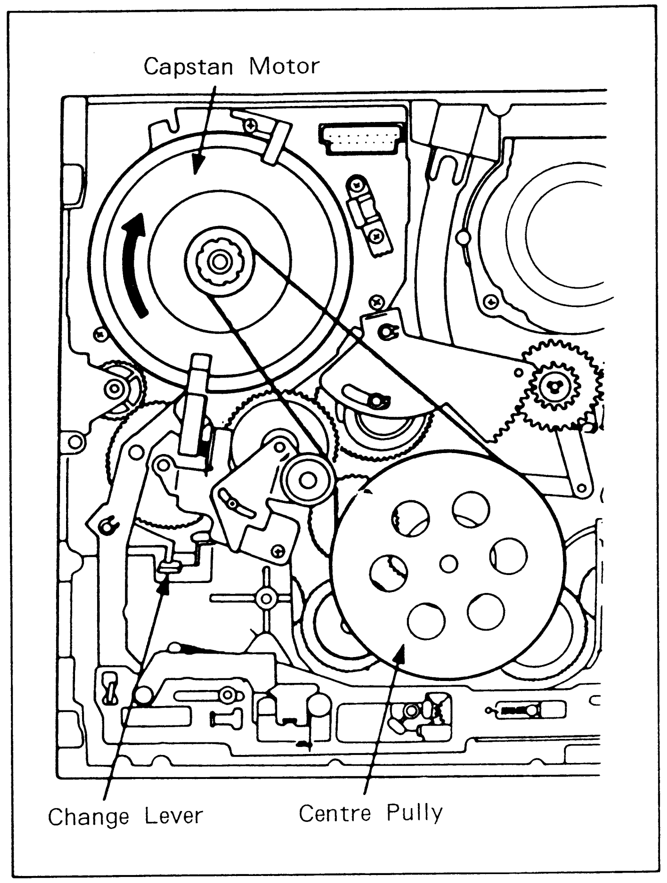

Capstan Motor
Change Lever
Centre Pully

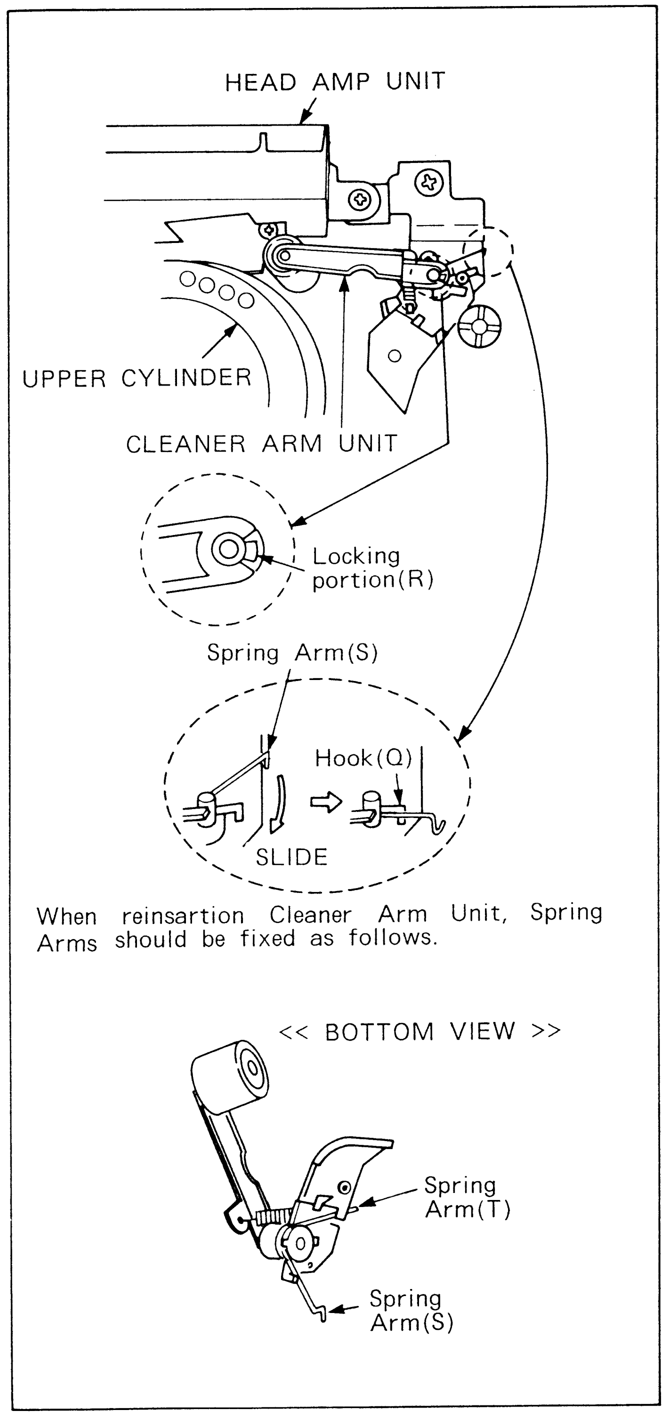
Fig. D9

NOTE:
When reinstalling the Cassette compartment, mechanical adjustment(alignment) must be performed for correct working. Refer to Service Manual. (G1 (G–Rev.) mechanical chassis) (Order No. VRD8901M101).

8. REMOVAL OF THE CLEANER ARM UNIT

1. Hook the Spring Arm(S) to lower side of Hook (Q).
2. Unlock the locking portion(R) and then remove the Cleaner Arm Unit.

NOTE:
(1) Perform the steps in the reverse order when Assembling.
(2) When replacing Upper Cylinder, replace Cleaner Arm at the same time.


HEAD AMP UNIT
UPPER CYLINDER
CLEANER ARM UNIT
Locking portion(R)
Spring Arm(S)
Hook(Q)
SLIDE
<< BOTTOM VIEW >>
Spring Arm(T)
Spring Arm(S)

When reinsartion Cleaner Arm Unit, Spring Arms should be fixed as follows.

Fig. D10

2-2. MECHANICAL ADJUSTMENT PROCEDURES

This mechanical chassis of these model NV–F55EG/EV is the same as G1(G–Rev.) Mechanical Chassis. Therefore please refer to the Service Manual G1(G–Rev.) Mechanical Chassis(Order No. VRD8901M101).

2–2–1. TAPE INTERCHANGEABILTY ADJUSTMENT

CAUTIONS:
Make a Adjustment Mode as shown in Fig.M1 (Connect a Cut Jumper Wire.)

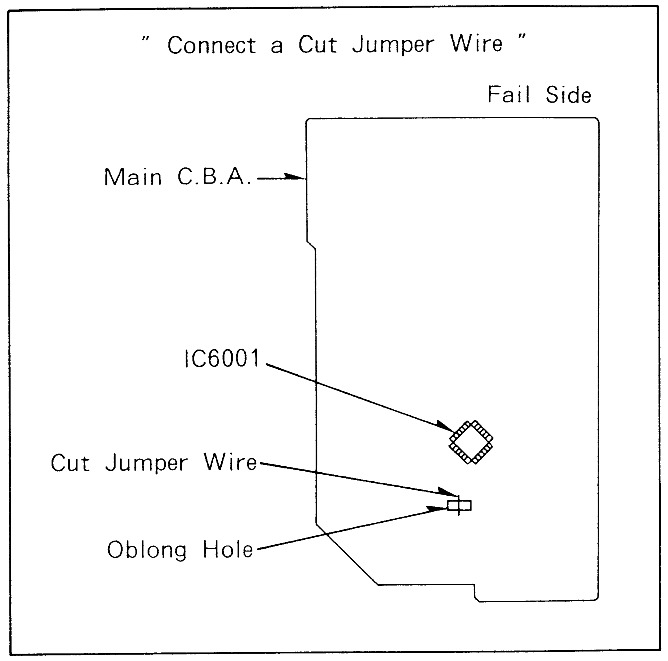
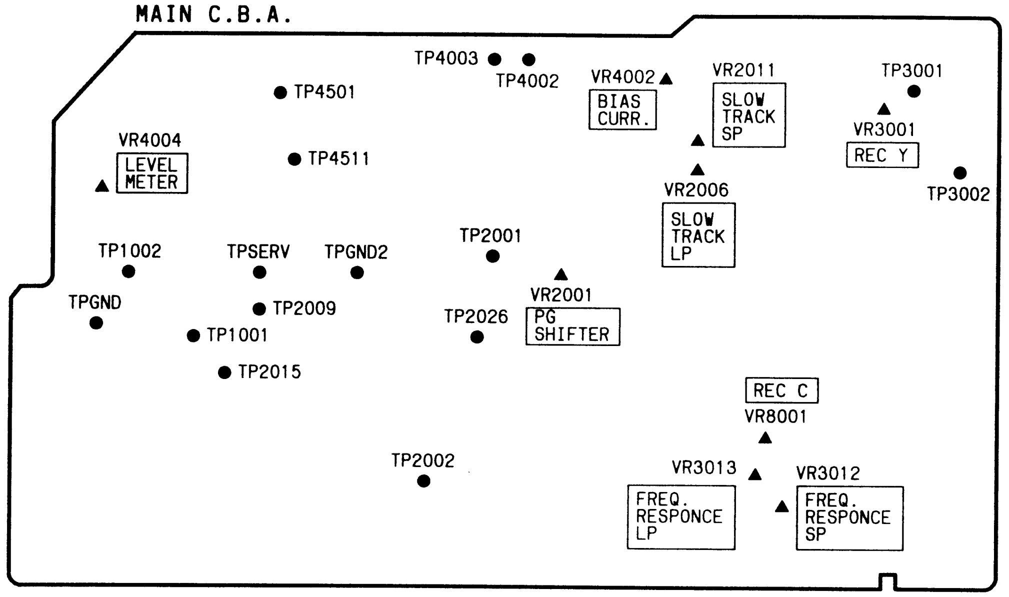

" Connect a Cut Jumper Wire "
Fail Side
Main C.B.A.
IC6001
Cut Jumper Wire
Oblong Hole

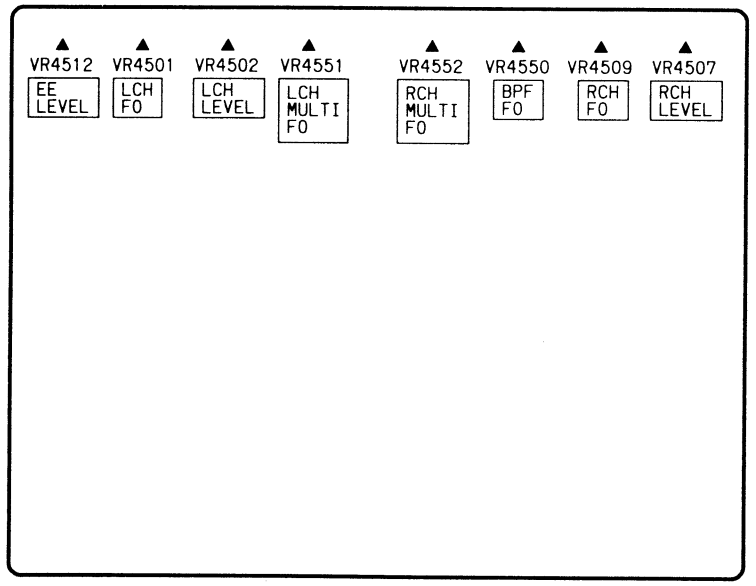
Fig. M1 Adjustment Mode

LOCATION OF TEST POINTS & CONTROLS

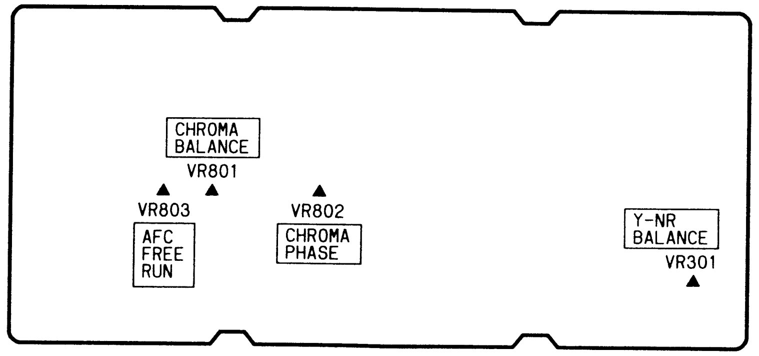
MAIN C.B.A.


TP4003
TP4002
VR4002
BIAS CURR.
VR2011
SLOW TRACK SP
TP3001
TP4501
VR3001
REC Y
VR4004
LEVEL METER
TP4511
VR2006
TP3002
SLOW TRACK LP
TP1002
TPSERV
TPGND2
TP2001
VR2001
TPGND
TP2009
TP2026
PG SHIFTER
TP1001
TP2015
REC C
VR8001
TP2002
VR3013
VR3012
FREQ. RESPONCE LP
FREQ. RESPONCE SP

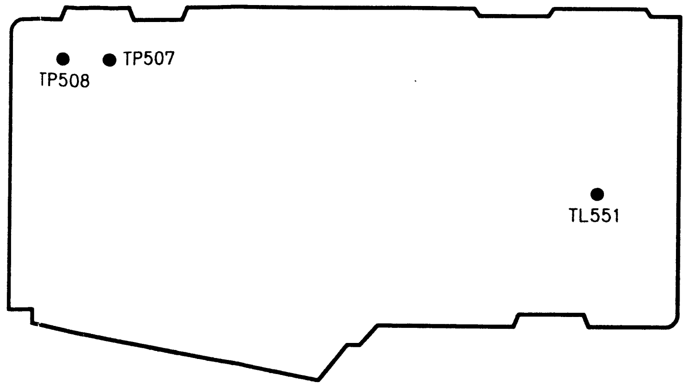
Hi-Fi AUDIO PACK C.B.A.


VR4512
EE LEVEL
VR4501
LCH FO
VR4502
LCH LEVEL
VR4551
LCH MULTI FO
VR4552
RCH MULTI FO
VR4550
BPF FO
VR4509
RCH FO
VR4507
RCH LEVEL

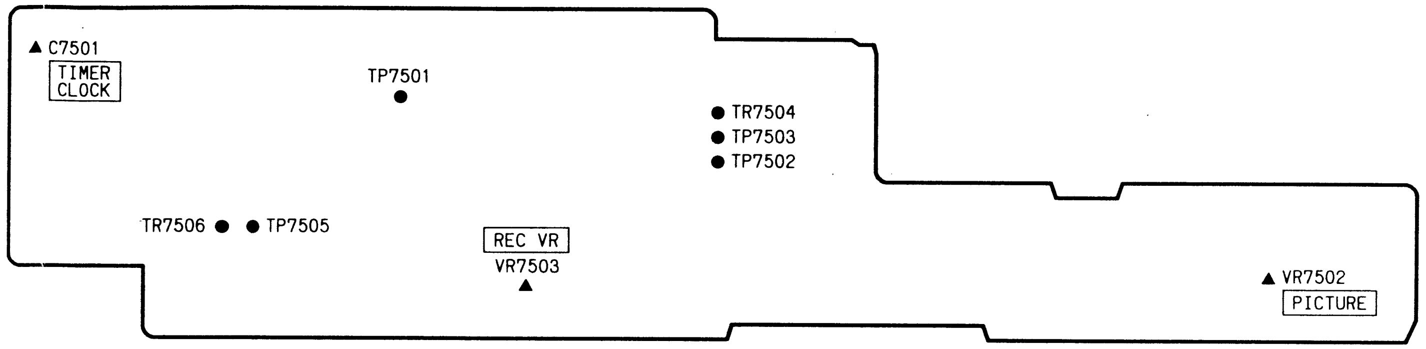
LUMINANCE & CHROMINANCE PACK C.B.A.


CHROMA BALANCE
VR801
VR803
AFC FREE RUN
VR802
CHROMA PHASE
Y-NR BALANCE
VR301

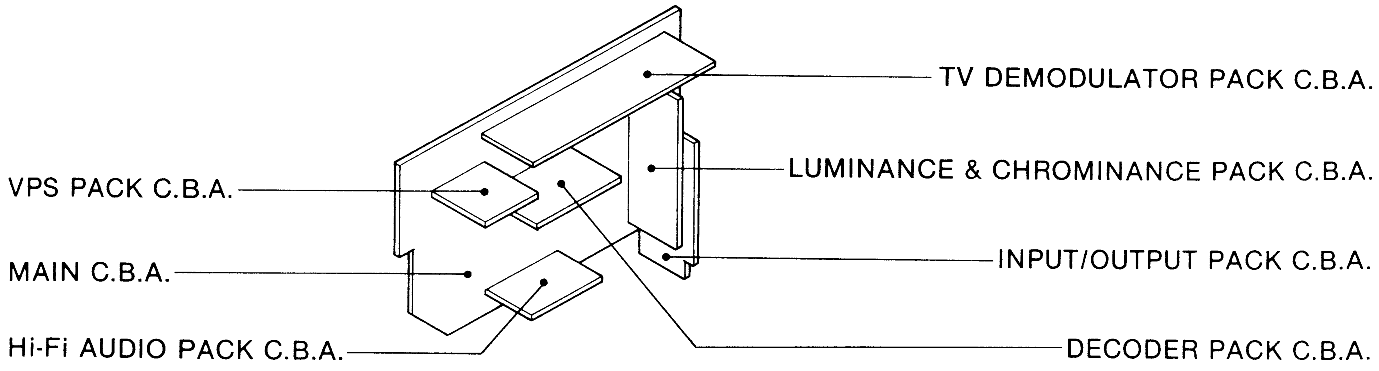
HEAD AMP C.B.A.

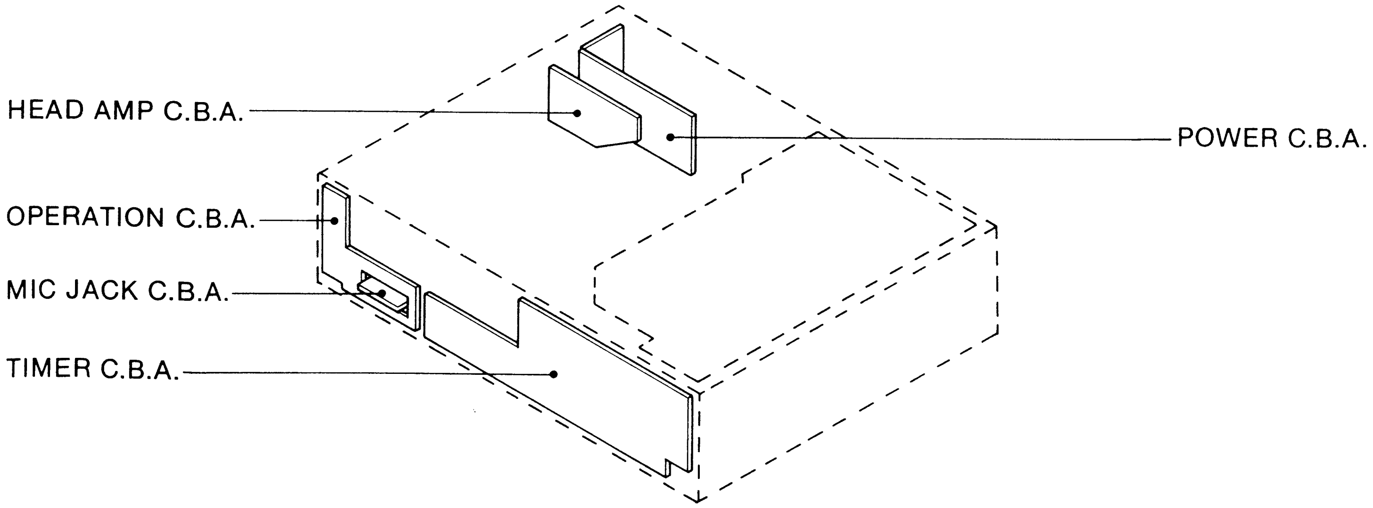

TP508
TP507
TL551

TIMER C.B.A.


C7501
TIMER CLOCK
TP7501
TR7504
TP7503
TP7502
TR7506
TP7505
REC VR
VR7503
VR7502
PICTURE

CIRCUIT BOARD LAYOUT


TV DEMODULATOR PACK C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
VPS PACK C.B.A.
INPUT/OUTPUT PACK C.B.A.
MAIN C.B.A.
DECODER PACK C.B.A.
Hi-Fi AUDIO PACK C.B.A.


HEAD AMP C.B.A.
POWER C.B.A.
OPERATION C.B.A.
MIC JACK C.B.A.
TIMER C.B.A.

2-3. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete electrical adjustment procedures which may be required for electric circuits of VHS Video Cassette Recorders.

2-3-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

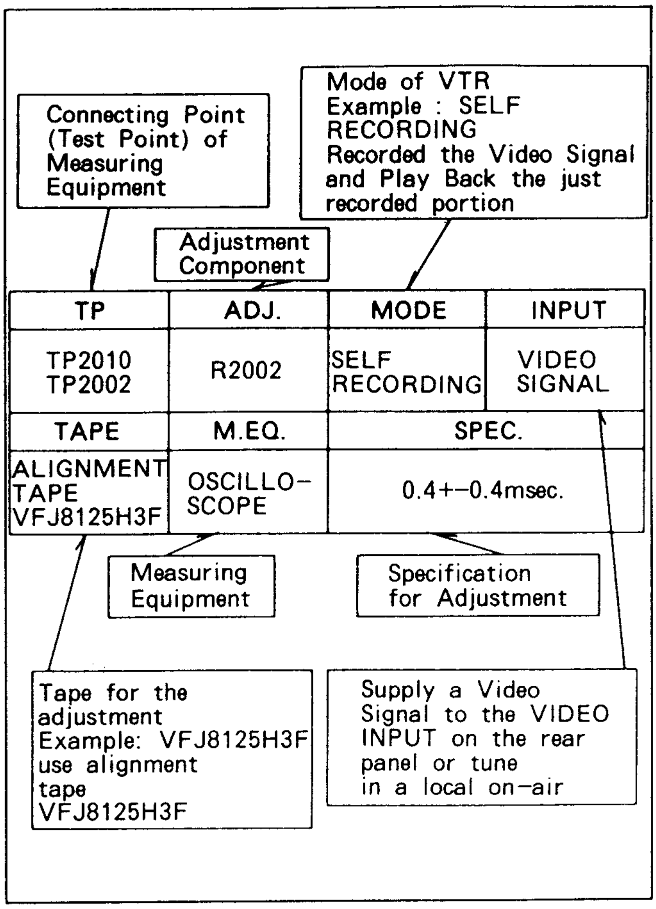
(1) Dual-Trace Oscilloscope. (Mode than 35 MHz)
    Voltage Range: 0.005-5V/div
    Frequency Range: DC-35MHz
    Probes: 10:1
(2) Frequency Counter.
    Frequency Range: 0-10MHz
    Probes: 1:1
(3) Universal Counter.
(4) Vacuum Tube Volt Meter. (V.T.V.M.)
(5) Video Sweep Generator.
(6) Sine Wave Generator.
(7) Video Pattern Generator.
(8) VHS Alignment Tape. (VFJ8125H3F)
(9) VHS Blank Tape.
(10) Monitor.
(11) Plastic Tip Driver.

2-3-2. PREPARATION

During adjustments, set each selector as follows when no indication on each procedures.

(1) PICTURE VR.....Centre Fix
(2) HiFi/NORMAL Mix SW.....OFF
(3) NTSC 4.43 SW.....OFF
(4) NOISE FILTER EDIT SW.....OFF
(5) TAPE SELECT SW.....E195 side
(6) AUDIO REC VR.....Centre Fix
(7) PAL/MESECAM SELECTOR.....PAL
(8) TEST SIGNAL SW(REAR).....OFF

2-3-3. HOW TO READ ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Adjustment Component
Mode of VTR Example : SELF RECORDING Recorded the Video Signal and Play Back the just recorded portion
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air

TP	ADJ.	MODE	INPUT
TP2010 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M.EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	0.4+-0.4msec.	

Fig. E1

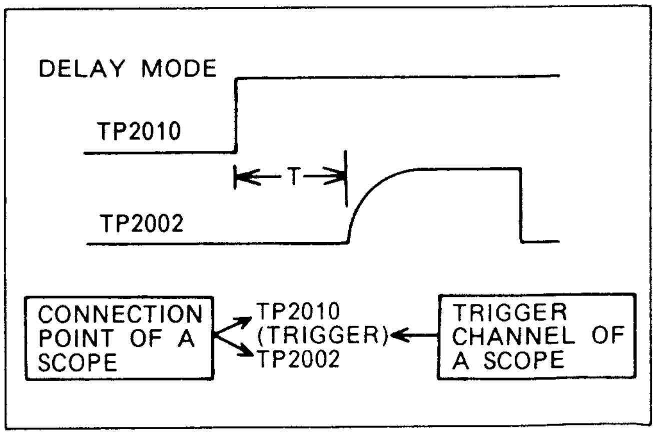

DELAY MODE
TP2010
T
TP2002
CONNECTION POINT OF A SCOPE
TP2010 (TRIGGER)
TP2002
TRIGGER CHANNEL OF A SCOPE

Fig. E2

SERVO SECTION

2-3-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP3002	VR2001	PLAYBACK	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	7.0+-0.5(H)	

1. Connect the oscilloscope to TP2001(H.SW) and TP3002(V.OUT).
2. Playback the alignment tape.
3. Adjust VR2001 so that phase difference between falling edge of Head SW pulse and V-Sync becomes 7.0+-0.5(H).

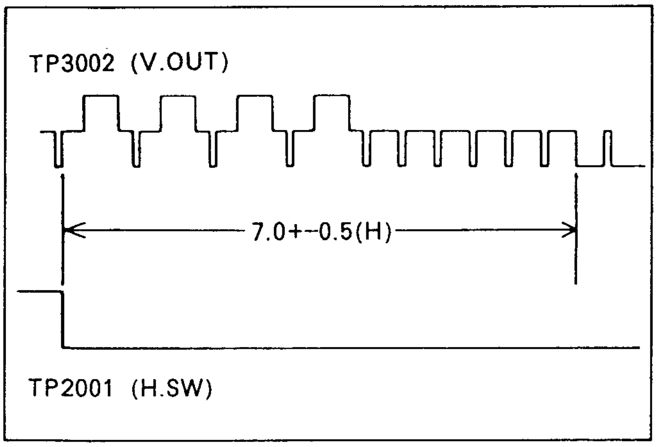


Fig. E3

2-3-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2011	SP (SELF RECORDED) STILL	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	MONITOR TV	A=B (A+B)/V<1/6	

1. Record the colour bar in SP mode for few time and playback the just recorded portion.
2. Place the unit in SLOW mode by pressing slow button on Remote Controller Unit.
3. Adjust VR2011 so that noise bar on the monitor screen becomes minimum. (Detail specifications are shown in Fig.E4)

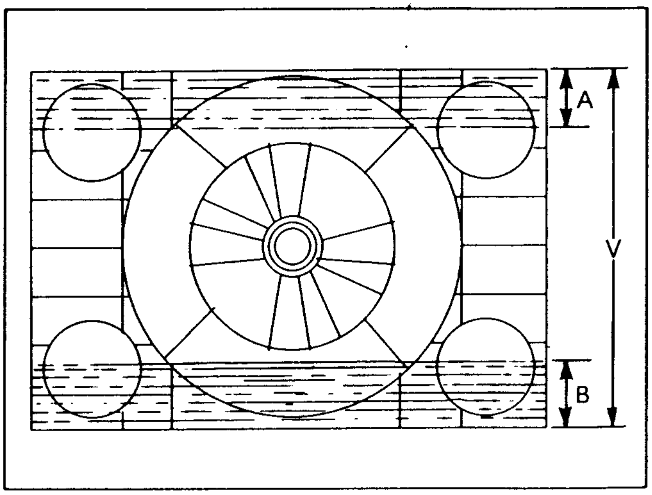


Fig. E4

LUMINANCE & CHROMINANCE SECTION

2-3-6. Y-NR BALANCE ADJUSTMENT

TP	ADJ.	MODE	INPUT
PIN (17) of IC302	VR301	LP RECORDING	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	MINIMIZED AS POSSIBLE (Less than 50mVp-p)	

Note:

Connect the capacitor 1500pF between Pin 17 of IC302 and GND.

1. Record the colour bar in LP mode.
2. Connect the oscilloscope to Pin 17 of IC302.
3. Adjust VR301 so that the amplitude at Pin 17 of IC302 becomes minimum.

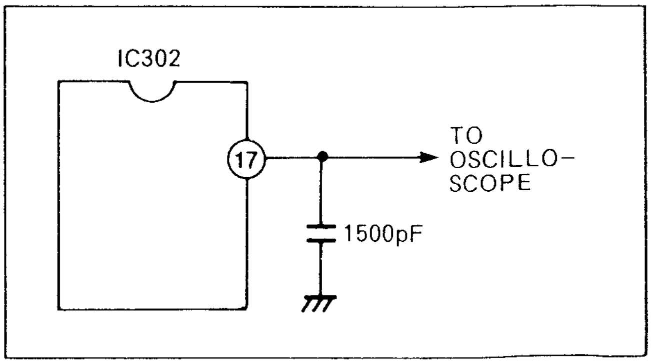


Fig. E5

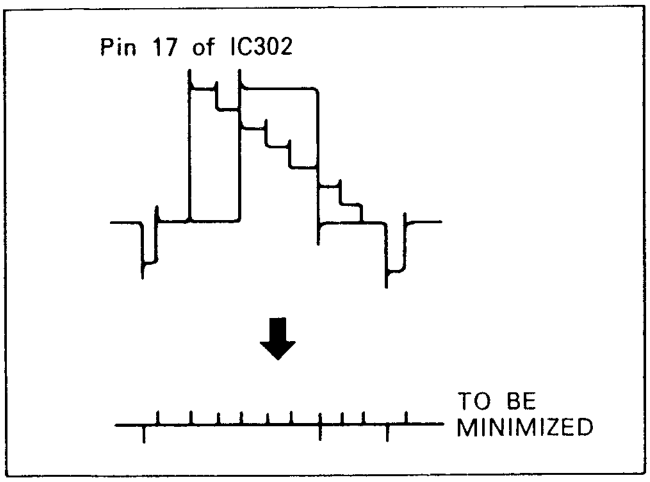


Fig. E6

2-3-7. ARTIFICIAL PAL AFC FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
PIN (9) of IC801	VR803	STOP	SINEWAVE 8KHz -10dB (316mV)

TAPE	M. EQ.	SPEC.
	FREQUENCY COUNTER SINEWAVE GENERATOR	15735+-100(Hz)

Note:
Supply +5V DC to Pin 15 of IC801.

1. Supply the sinewave (8KHz/-10dB) to Line In. (Video In)
2. Connect the frequency counter to Pin 9 of IC801.
3. Turn VR803 to end of direction which is maximum frequency side.
4. Adjust VR803 so that the frequency becomes 15735+-100(Hz).

2-3-8. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507(HOT) TP508(GND)	VR3001(Y) VR8001(C)	SP RECORDING	COLOUR BAR

TAPE	M. EQ.	SPEC.
BLANK TAPE	OSCILLO-SCOPE	Y:105+-5(mVp-p) C:28+-2(mVp-p)

1. Record the colour bar in SP mode.
   Connector the oscilloscope to TP507(HOT) and TP508(GND).
3. Adjust VR3001 so that the amplitude of sync tip portion becomes 105+-5mVp-p.
4. Supply +5V DC to Pin 6 of Luminance & Chrominance Pack C.B.A. to reduce luminance component.
5. Adjust VR8001 so that the amplitude of Cyan becomes 28+-2mVp-p.

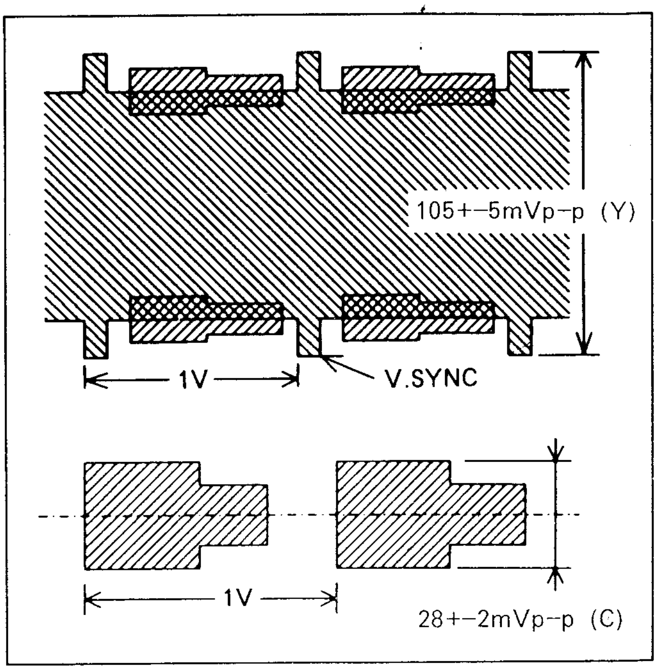


Fig. E7

2-3-9. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002	VR3012(SP) VR3013(LP)	SP/LP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL

TAPE	M. EQ.	SPEC.
BLANK TAPE	OSCILLO-SCOPE VIDEO SWEEP GENERATOR	SP:0+-1(dB) (90~110%) LP:0+-1(dB) (90~110%)

Note:
Set the Video Sweep Signal as shown in Fig.E8.

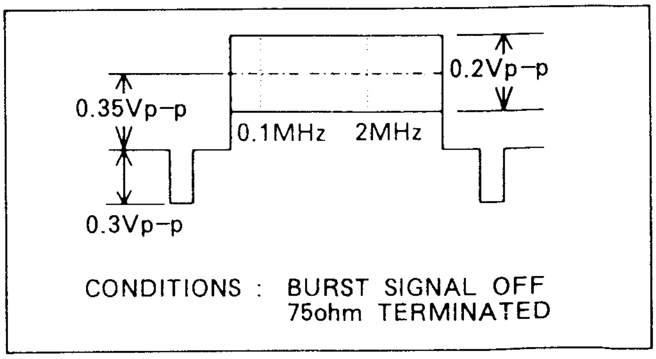


Fig. E8

1. Record the Video Sweep Signal for few time and playback the just recorded portion.
2. Connect the oscilloscope to TP3002.
3. Adjust VR3012 so that the frequency response becomes 0+-1dB on 2MHz portion compare with 0.1MHz portion.

4. Record the Video Sweep Signal in LP mode for few time and playback the just recorded portion.
5. Adjust VR3013 so that the frequency response becomes 0+-1dB on 2MHz portion compare with 0.1MHz portion.

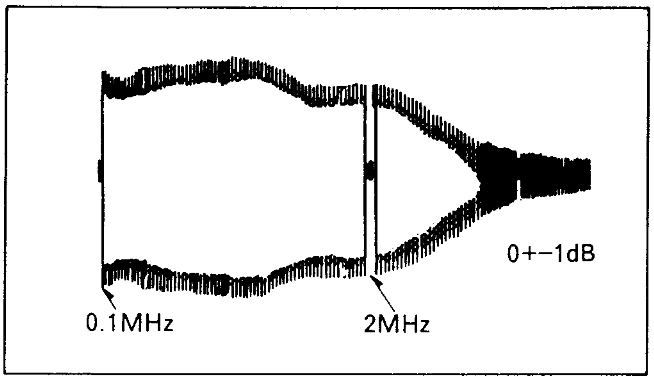


Fig. E9

2-3-10. CHROMA RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC302- 17 PIN	VR802 VR801	STOP	COLOUR BAR
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	MINIMUM WAVEFORM	

1. Supply the colour bar to Line in.
2. Connect the oscilloscope to Pin 17 of IC302.
3. Adjust VR801 and VR802 mutually so that the chrominance amplitude to be minimum.

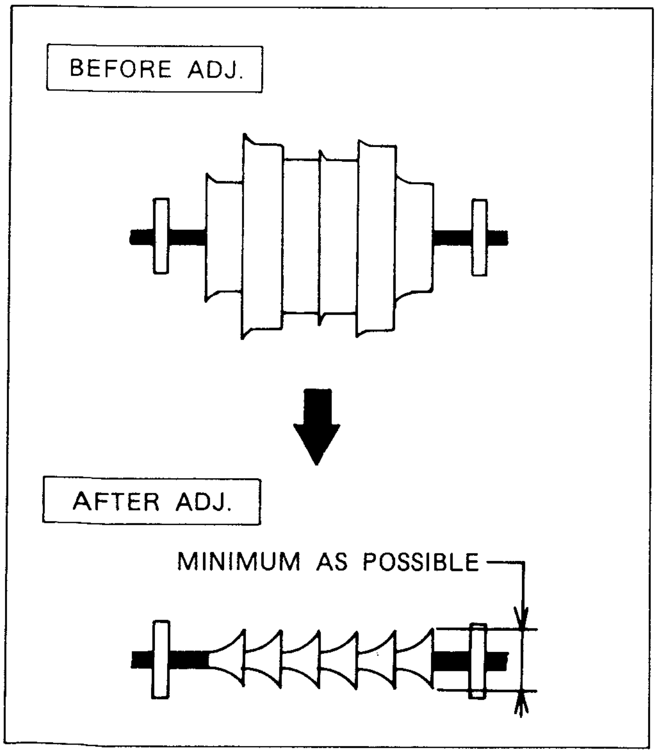


Fig. E10

AUDIO SECTION

2-3-11. HiFi E-E LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
LINE OUT	VR4512	STOP	1KHz, -10dB AUDIO SIG
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERA-TOR/ V.T.V.M.	-8+-0.5dB (380-420mVrms)	

1. Set the Audio Playback Mode Selector to STEREO position. (Both the Left and Right indicators are lit.)
2. Adjust VR4512 so that the audio level becomes -8+-0.5dB(380∼420mVrms).

2-3-12 CARRIER FREQUENCY ADJUSTMENT (MULTI)

TP	ADJ.	MODE	INPUT
IC4501-34(L) IC4501-47(R)	VR4501(L) VR4504(R) VR4551(L) VR4552(R)	SP RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+-0.003(MHz) NTSC-R: 1.7+-0.003(MHz) PAL-L: 1.4+-0.003(MHz) PAL-R: 1.8+-0.003(MHz)	

1. Turn on the NTSC 4.43 SW to set in NTSC mode.
2. Connect the Frequency Counter to IC4501-34.
3. Adjust VR4501 and VR4551 so that IC4501-34 becomes 1.3+-0.003(MHz).
4. Connect the Frequency Counter to IC4501-47.
5. Adjust VR4509 and VR4552 so that IC4501-47 becomes 1.7+-0.003(MHz).
6. Turn off the NTSC 4.43 SW to set in PAL mode.
7. Connect the Frequency Counter to IC4501-34.
8. Adjust VR4501 and VR4551 so that IC4501-34 becomes 1.4+-0.003(MHz).
9. Connect the Frequency Counter to IC4501-47.
10. Adjust VR4509 and VR4552 so that IC4501-47 becomes 1.8+-0.003(MHz).

2-3-13. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-34(L) IC4501-47(R)	VR4502(L) VR4507(R)	SP RECORDING	1KHz, -10dBV (316mVrms)
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M./ SINEWAVE SIGNAL GEN.	355mVrms	

1. Set the output of the Signal Generator to 1KHz, −10dBV and supply it to both Audio Input Jacks (L) and (R).
   Next, adjust the recording with the Audio Recording VR so that the Audio Outputs are 400mVrms at both Audio Output Jacks (L) and (R).
2. Adjust VR4502 so that IC4501−34 becomes 355mVrms.
3. Adjust VR4507 so that IC4501−47 becomes 356mVrms.

2−3−14. FM B.P.F. LEVEL ADJUSTMENT (MULTI)

TP	**ADJ.**	**MODE**	**INPUT**
IC4501−33(L) IC4501−48(R)	VR4550	PLAY	1.608MHz 400mVp−p SINEWAVE SIG.
TAPE	**M. EQ.**	**SPEC.**	
NTSC RECORDED TAPE	OSCILLO-SCOPE	LEVEL DIFFERENCE BETWEEN L AND R : 0(dB) (CH L = CH R)	

1. Turn off the NTSC 4.43 SW to set in PAL mode.
2. Playback the NTSC recorded tape.
3. Connect a jumper wire between PS4003−16 and GND.
4. Connect the oscilloscope to IC4501−33(L) and IC4501−48(R).
5. Adjust VR4550 so that the level difference between IC4501−33(L) and IC4501−48(R) becomes 0(dB).
6. Remove the jumper wire.

2−3−15. BIAS CURRENT ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
TP4002 (HOT) TP4003 (GND)	VR4002	RECORDING	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	3.0+−0.1(mVrms)	

1. Place the unit in recording mode.
2. Connect the V.T.V.M. to TP4002(HOT) and TP4003(GND).
3. Adjust VR4002 so that reading of V.T.V.M. becomes 3.0+−0.1mVrms.

2−3−16. LEVEL METER SENSITIVITY ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
LEVEL METER	VR4004	STOP	1KHz, −10dBV (316mVrms)
TAPE	**M. EQ.**	**SPEC.**	
	SIGNAL GEN/ V.T.V.M.	0dB INDICATOR JUST LIGHTS UP	

1. Set the Audio Playback Mode Selector to STEREO position. (Both the Left and Right indicators are lit.)
2. Set the output Signal Generator to 1KHz, −10dBV(316mVrms) and supply it to both Audio Input Jacks (L) and (R).
3. Adjust VR4004 so that the 0dB of Level Meter just lights up.

TIMER SECTION

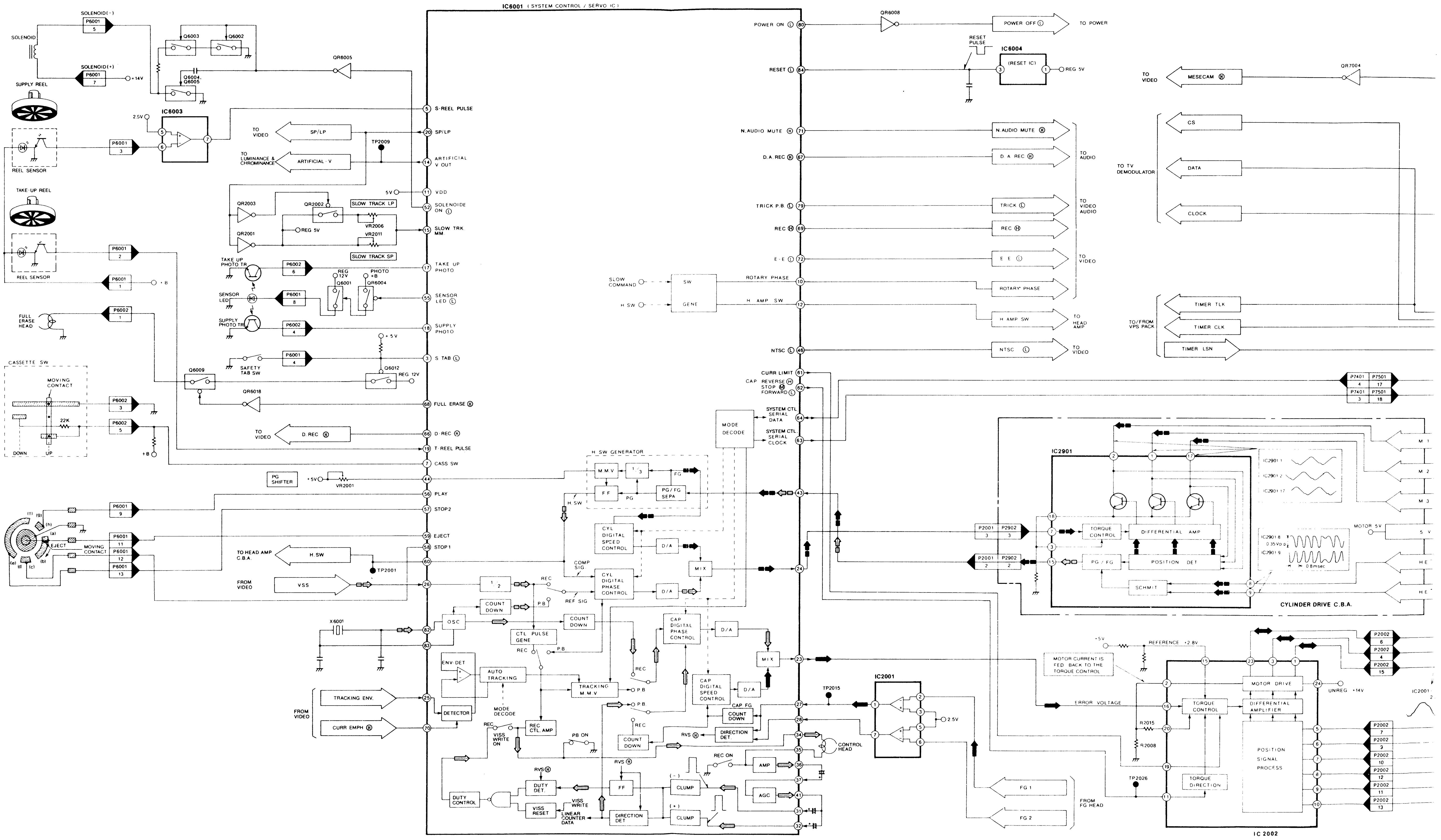
2−3−17. TIMER REFERENCE CLOCK ADJUSTMENT

TP	**ADJ.**	**MODE**	**INPUT**
TP7501	C7501	STOP	
TAPE	**M. EQ.**	**SPEC.**	
	UNIVERSAL COUNTER	7812.5+−0.015(us)	

1. Connect the universal counter to TP7501.
2. Adjust C7501 so that the reading of universal counter becomes 7812.5+−0.015us.

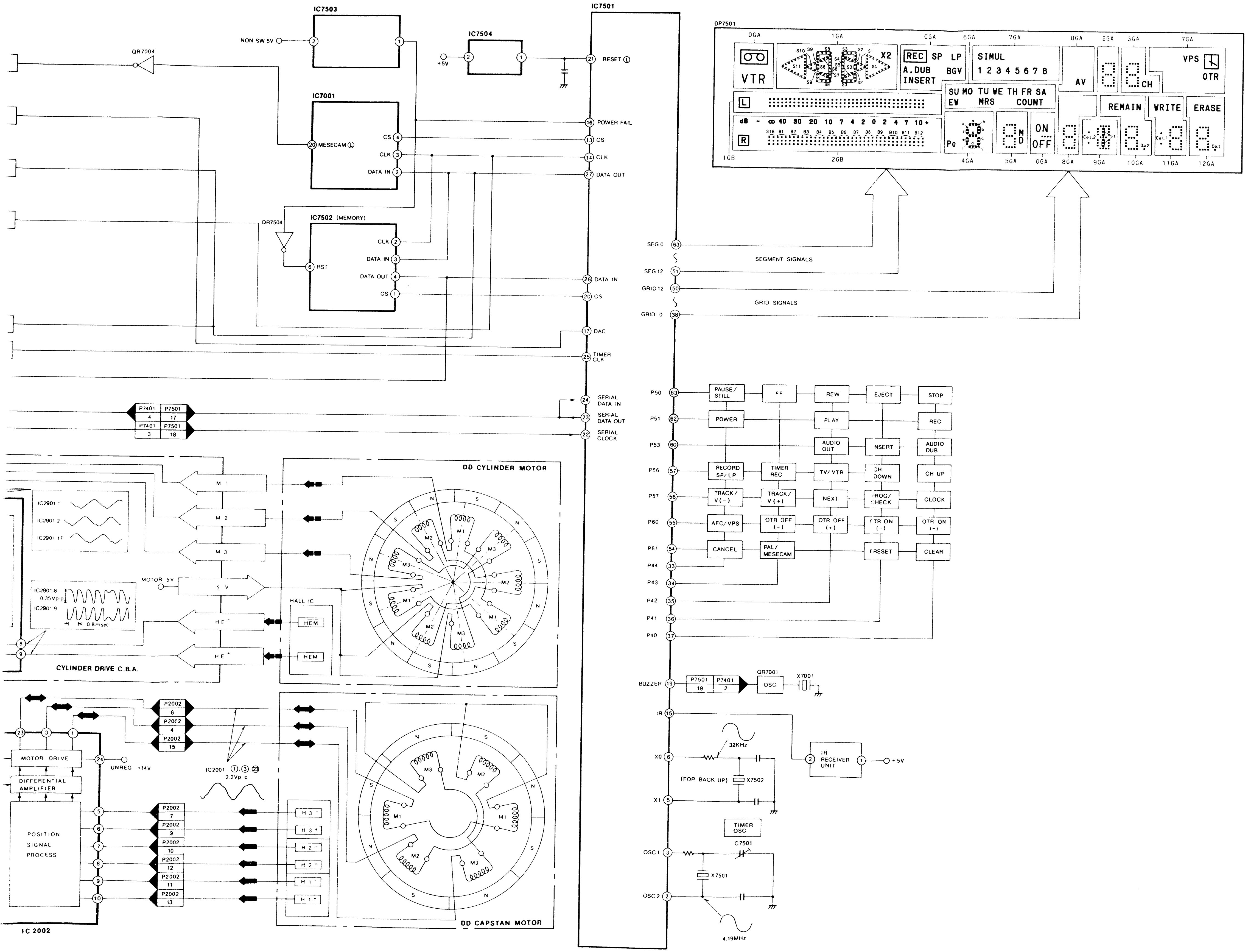
SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL & SERVO BLOCK DIAGRAM

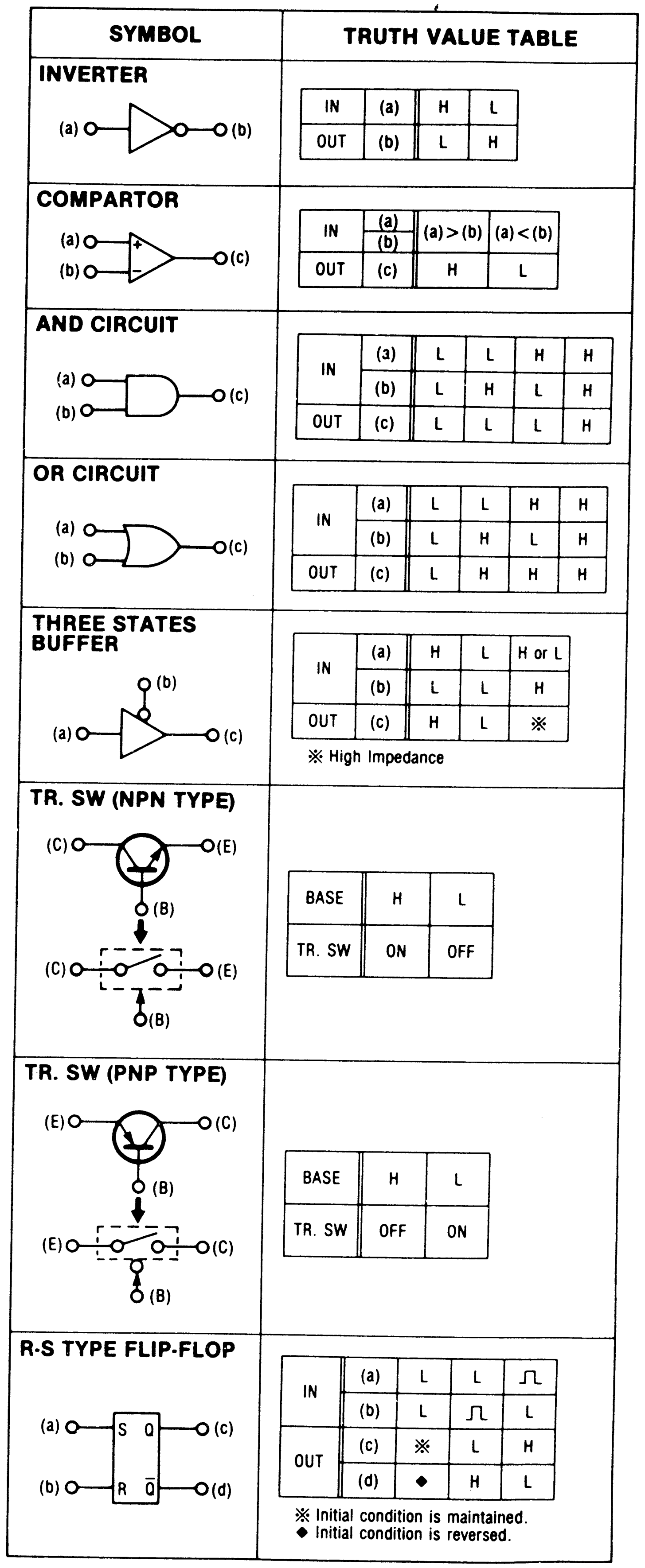
◀ CAPSTAN SERVO SPEED LOOP ⇦ CAPSTAN SERVO PHASE LOOP ◀■ CYLINDER SERV



IC6001 (SYSTEM CONTROL / SERVO IC)
SOLENOID(-)
P6001
SOLENOID
SOLENOID(+)
+14V
SUPPLY REEL
Q6003
Q6002
Q6004, Q6005
QR6005
IC6003
2.5V
REEL SENSOR
TAKE-UP REEL
TO VIDEO
SP/LP
TO LUMINANCE & CHROMINANCE
ARTIFICIAL·V
TP2009
5V
QR2003
QR2002
SLOW TRACK LP
REG 5V
VR2006
VR2011
QR2001
SLOW TRACK SP
TAKE UP PHOTO TR
P6002
REG 12V
PHOTO +B
Q6001
QR6004
SENSOR LED
SUPPLY PHOTO TR
+5V
SAFETY TAB SW
Q6012
REG 12V
Q6009
QR6018
FULL ERASE HEAD
CASSETTE SW
MOVING CONTACT
22K
DOWN
UP
+B
D.REC Ⓗ
PG SHIFTER
VR2001
EJECT
MOVING CONTACT
TO HEAD AMP C.B.A
H.SW
TP2001
FROM VIDEO
VSS
X6001
TRACKING ENV.
CURR EMPH Ⓗ
FROM VIDEO
S-REEL PULSE
SP/LP
ARTIFICIAL V OUT
VDD
SOLENOIDE ON Ⓛ
SLOW TRK MM
TAKE UP PHOTO
SENSOR LED Ⓛ
SUPPLY PHOTO
S TAB Ⓛ
FULL ERASE Ⓗ
D-REC Ⓗ
T REEL PULSE
CASS SW
PLAY
STOP2
EJECT
STOP1
H SW GENERATOR
MMV
1/3
FG
FF
PG
PG/FG SEPA
H.SW
CYL DIGITAL SPEED CONTROL
D/A
COMP SIG
MIX
CYL DIGITAL PHASE CONTROL
REF SIG
1/2
REC
COUNT DOWN
PB
OSC
CTL PULSE GENE
ENV·DET
AUTO TRACKING
DETECTOR
MODE DECODE
REC CTL AMP
TRACKING M.M.V
CAP DIGITAL PHASE CONTROL
CAP DIGITAL SPEED CONTROL
CAP FG COUNT DOWN
DIRECTION DET
RVS Ⓗ
VISS WRITE ON
PB ON
REC ON
AMP
AGC
CLUMP
FF
DUTY DET.
DUTY CONTROL
VISS RESET
VISS WRITE
LINEAR COUNTER DATA
CONTROL HEAD
POWER ON Ⓛ
RESET Ⓛ
N.AUDIO MUTE Ⓗ
D.A. REC Ⓗ
TRICK P.B. Ⓛ
REC Ⓗ
E·E Ⓛ
ROTARY PHASE
H AMP SW
NTSC Ⓛ
CURR LIMIT
CAP REVERSE Ⓗ STOP Ⓜ FORWARD Ⓛ
SYSTEM CTL SERIAL DATA
SYSTEM CTL SERIAL CLOCK
MODE DECODE
SLOW COMMAND
H SW
SW GENE
QR6008
POWER OFF Ⓛ
TO POWER
RESET PULSE
IC6004
(RESET IC)
REG 5V
TO VIDEO
MESECAM Ⓗ
QR7004
TO AUDIO
TO VIDEO AUDIO
TO VIDEO
TO HEAD AMP
TO TV DEMODULATOR
CS
DATA
CLOCK
TO/FROM VPS PACK
TIMER TLK
TIMER CLK
TIMER LSN
P7401
P7501
IC2901
TORQUE CONTROL
DIFFERENTIAL AMP
PG/FG
POSITION DET
SCHMIT
P2001
P2902
MOTOR 5V
IC2901 8 0.35Vp-p
IC2901 9
0.8msec
CYLINDER DRIVE C.B.A.
M1
M2
M3
HE
TP2015
IC2001
2.5V
+5V
REFERENCE +2.8V
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
ERROR VOLTAGE
R2015
R2008
TP2026
MOTOR DRIVE
TORQUE CONTROL
DIFFERENTIAL AMPLIFIER
POSITION SIGNAL PROCESS
TORQUE DIRECTION
UNREG +14V
IC 2002
P2002
FG 1
FG 2
FROM FG HEAD

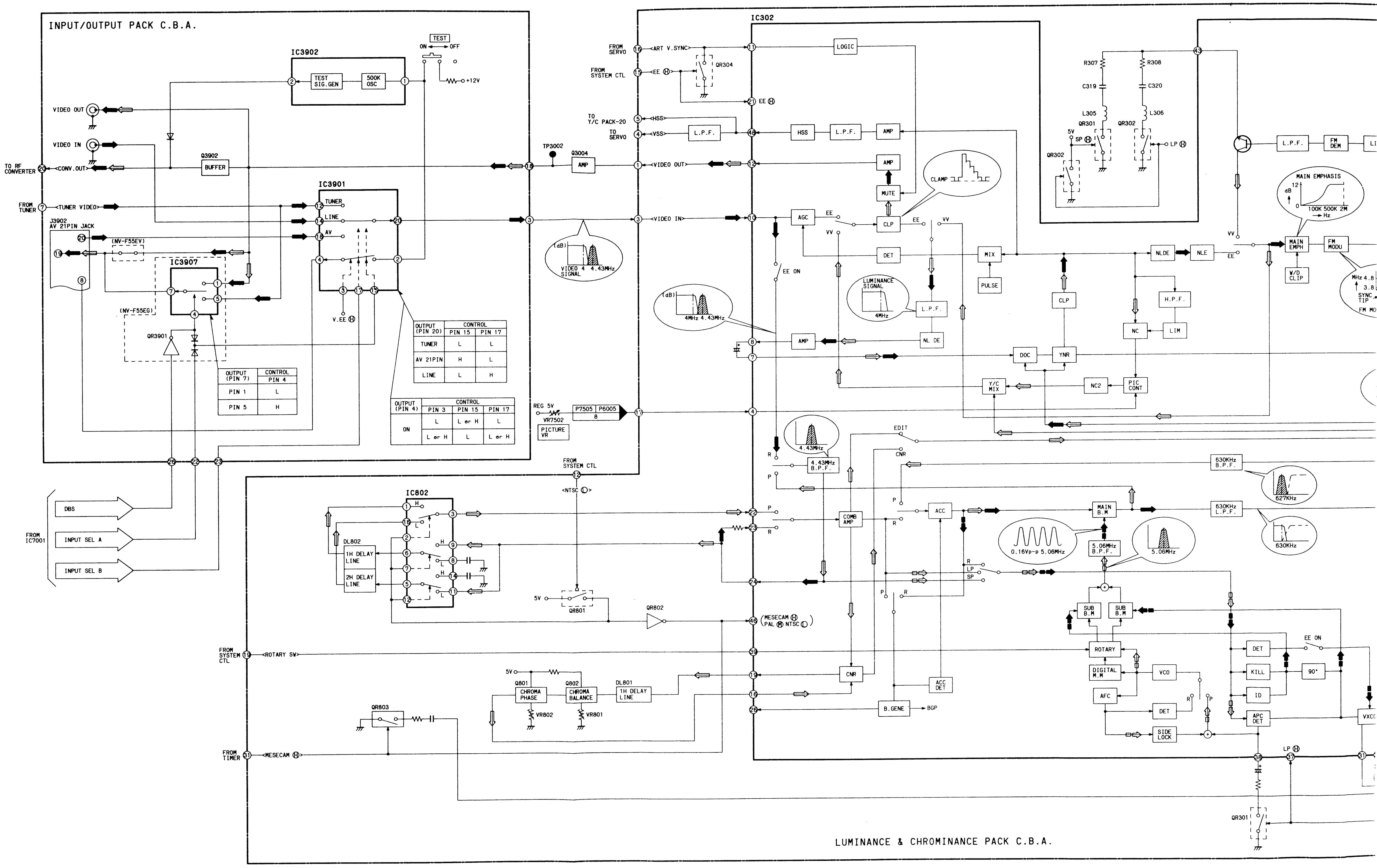
⟩P ◀■ CYLINDER SERVO SPEED LOOP ⇦□ CYLINDER SERVO PHASE LOOP


IC7503
IC7504
IC7501
NON SW 5V
QR7004
+5V
RESET Ⓛ
IC7001
MESECAM Ⓛ
CS
CLK
DATA IN
POWER FAIL
CS
CLK
DATA OUT
IC7502 (MEMORY)
QR7504
RST
CLK
DATA IN
DATA OUT
CS
DATA IN
CS
DAC
TIMER CLK
SERIAL DATA IN
SERIAL DATA OUT
SERIAL CLOCK
P7401
P7501
SEG 0
SEG 12
GRID 12
GRID 0
SEGMENT SIGNALS
GRID SIGNALS
DP7501
VTR
X2
REC
SP
LP
A.DUB
BGV
INSERT
SIMUL
1 2 3 4 5 6 7 8
AV
CH
VPS
OTR
SU MO TU WE TH FR SA
EW
MRS
COUNT
REMAIN
WRITE
ERASE
L
R
dB - ∞ 40 30 20 10 7 4 2 0 2 4 7 10 +
Po
ON
OFF
P50
P51
P53
P56
P57
P60
P61
P44
P43
P42
P41
P40
PAUSE/STILL
FF
REW
EJECT
STOP
POWER
PLAY
REC
AUDIO OUT
INSERT
AUDIO DUB
RECORD SP/LP
TIMER REC
TV/VTR
CH DOWN
CH UP
TRACK/V(-)
TRACK/V(+)
NEXT
PROG/CHECK
CLOCK
AFC/VPS
OTR OFF (-)
OTR OFF (+)
OTR ON (-)
OTR ON (+)
CANCEL
PAL/MESECAM
RESET
CLEAR
BUZZER
QR7001
OSC
X7001
IR
IR RECEIVER UNIT
+5V
X0
X1
32KHz
(FOP BACK UP)
X7502
TIMER OSC
C7501
OSC 1
OSC 2
X7501
4.19MHz
DD CYLINDER MOTOR
M 1
M 2
M 3
5 V
H E
HALL IC
HEM
IC2901 1
IC2901 2
IC2901 17
IC2901 8
IC2901 9
0.35Vp-p
0.8msec
MOTOR 5V
CYLINDER DRIVE C.B.A.
P2002
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
UNREG +14V
IC2001 ①.③.㉓
2.2Vp-p
POSITION SIGNAL PROCESS
H 3
H 2
H 1
DD CAPSTAN MOTOR
IC 2002



SYMBOL	TRUTH VALUE TABLE
INVERTER (a) → (b)	IN (a): H, L OUT (b): L, H
COMPARTOR (a) +, (b) − → (c)	IN (a)/(b): (a)>(b), (a)<(b) OUT (c): H, L
AND CIRCUIT (a), (b) → (c)	IN (a): L, L, H, H IN (b): L, H, L, H OUT (c): L, L, L, H
OR CIRCUIT (a), (b) → (c)	IN (a): L, L, H, H IN (b): L, H, L, H OUT (c): L, H, H, H
THREE STATES BUFFER (a), (b) → (c)	IN (a): H, L, H or L IN (b): L, L, H OUT (c): H, L, ※ ※ High Impedance
TR. SW (NPN TYPE) (C), (E), (B)	BASE: H, L TR. SW: ON, OFF
TR. SW (PNP TYPE) (E), (C), (B)	BASE: H, L TR. SW: OFF, ON
R-S TYPE FLIP-FLOP (a) S, (b) R → (c) Q, (d) Q̄	IN (a): L, L, ⎍ IN (b): L, ⎍, L OUT (c): ※, L, H OUT (d): ◆, H, L ※ Initial condition is maintained. ◆ Initial condition is reversed.

3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

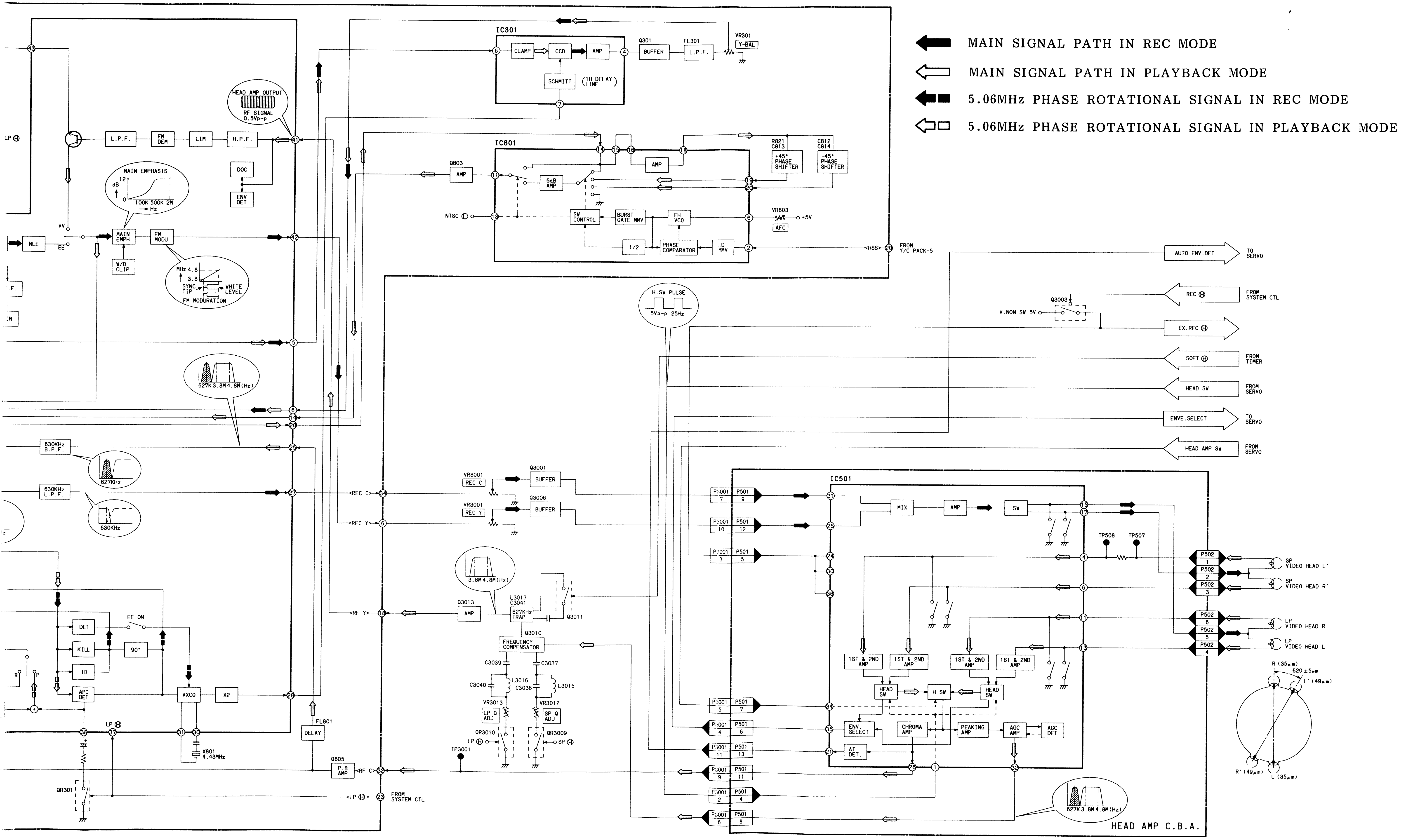

INPUT/OUTPUT PACK C.B.A.
IC3902
TEST SIG.GEN
500K OSC
TEST
ON OFF
+12V
VIDEO OUT
VIDEO IN
TO RF CONVERTER
<CONV.OUT>
Q3902
BUFFER
FROM TUNER
<TUNER VIDEO>
J3902 AV 21PIN JACK
(NV-F55EV)
(NV-F55EG)
IC3907
QR3901
IC3901
TUNER
LINE
AV
V.EE Ⓗ
TP3002
Q3004
AMP
REG 5V
VR7502
PICTURE VR
P7505
P6005
FROM IC7001
DBS
INPUT SEL A
INPUT SEL B
FROM SYSTEM CTL
<NTSC Ⓛ>
IC802
DL802
1H DELAY LINE
2H DELAY LINE
5V
QR801
QR802
QR803
Q801
CHROMA PHASE
VR802
Q802
CHROMA BALANCE
VR801
DL801
1H DELAY LINE
FROM SYSTEM CTL
<ROTARY SW>
FROM TIMER
<MESECAM Ⓗ>
IC302
FROM SERVO
<ART V.SYNC>
QR304
FROM SYSTEM CTL
<EE Ⓗ>
EE Ⓗ
TO Y/C PACK-20
<HSS>
TO SERVO
<VSS>
<VIDEO OUT>
<VIDEO IN>
(dB)
VIDEO SIGNAL
4 4.43MHz
LOGIC
HSS
L.P.F.
AMP
MUTE
CLAMP
AGC
CLP
EE
VV
DET
MIX
PULSE
EE ON
LUMINANCE SIGNAL
4MHz
NL DE
4MHz 4.43MHz
DOC
YNR
Y/C MIX
NC2
PIC CONT
NLDE
NLE
H.P.F.
LIM
NC
R307
R308
C319
C320
L305
L306
QR301
QR302
5V
SP Ⓗ
LP Ⓗ
FM DEM
MAIN EMPHASIS
dB 12 0
100K 500K 2M Hz
MAIN EMPH
W/D CLIP
FM MODU
MHz 4.8 3.8
SYNC TIP
FM MO
EDIT
CNR
4.43MHz
4.43MHz B.P.F.
R
P
COMB AMP
ACC
MAIN B.M
630KHz B.P.F.
627KHz
630KHz L.P.F.
630KHz
0.16Vp-p 5.06MHz
5.06MHz B.P.F.
5.06MHz
LP
SP
(MESECAM Ⓗ PAL Ⓜ NTSC Ⓛ)
SUB B.M
ROTARY
DIGITAL M.M
VCO
AFC
DET
SIDE LOCK
ACC DET
B.GENE
BGP
KILL
ID
90°
APC DET
VXCO
LUMINANCE & CHROMINANCE PACK C.B.A.

OUTPUT (PIN 7)	CONTROL
	PIN 4
PIN 1	L
PIN 5	H

OUTPUT (PIN 20)	CONTROL	
	PIN 15	PIN 17
TUNER	L	L
AV 21PIN	H	L
LINE	L	H

OUTPUT (PIN 4)	CONTROL		
	PIN 3	PIN 15	PIN 17
ON	L	L or H	L
	L or H	L	L or H

Back Page:
SYSTEM CONTROL & SERVO Section


IC301
CLAMP
CCD
AMP
SCHMITT
(1H DELAY LINE)
Q301
BUFFER
FL301
L.P.F.
VR301
Y-BAL
HEAD AMP OUTPUT
RF SIGNAL 0.5Vp-p
L.P.F.
FM DEM
LIM
H.P.F.
DOC
ENV DET
MAIN EMPHASIS
dB 12 0
100K 500K 2M Hz
VV
EE
NLE
MAIN EMPH
FM MODU
W/D CLIP
MHz 4.8 3.8
SYNC TIP
WHITE LEVEL
FM MODURATION
IC801
Q803
AMP
6dB AMP
NTSC
SW CONTROL
BURST GATE MMV
FH VCO
1/2
PHASE COMPARATOR
1D MMV
R821 C813
+45° PHASE SHIFTER
C812 C814
-45° PHASE SHIFTER
VR803
AFC
+5V
HSS
FROM Y/C PACK-5
627K 3.8M 4.8M(Hz)
630KHz B.P.F.
627KHz
630KHz L.P.F.
630KHz
H.SW PULSE
5Vp-p 25Hz
AUTO ENV.DET — TO SERVO
REC Ⓗ — FROM SYSTEM CTL
Q3003
V.NON SW 5V
EX.REC Ⓗ
SOFT Ⓗ — FROM TIMER
HEAD SW — FROM SERVO
ENVE.SELECT — TO SERVO
HEAD AMP SW — FROM SERVO
VR8001 REC C
Q3001 BUFFER
VR3001 REC Y
Q3006 BUFFER
REC C
REC Y
RF Y
3.8M 4.8M(Hz)
Q3013 AMP
L3017 C3041
627KHz TRAP
Q3011
Q3010
FREQUENCY COMPENSATOR
C3039 C3037
C3040 L3016 C3038 L3015
VR3013 LP Q ADJ
VR3012 SP Q ADJ
QR3010 LP Ⓗ
QR3009 SP Ⓗ
TP3001
DET
KILL
ID
APC DET
EE ON
90°
VXCO
X2
X801 4.43MHz
FL801
DELAY
LP Ⓗ
Q805 P.B AMP
RF C
QR301
FROM SYSTEM CTL
IC501
P3001 P501
MIX
AMP
SW
TP508 TP507
1ST & 2ND AMP
HEAD SW
H SW
ENV. SELECT
CHROMA AMP
PEAKING AMP
AGC AMP
AGC DET
AT DET.
P502
SP VIDEO HEAD L'
SP VIDEO HEAD R'
LP VIDEO HEAD R
LP VIDEO HEAD L
R (35μm)
620 ±5μm
L' (49μm)
R' (49μm)
L (35μm)
HEAD AMP C.B.A.

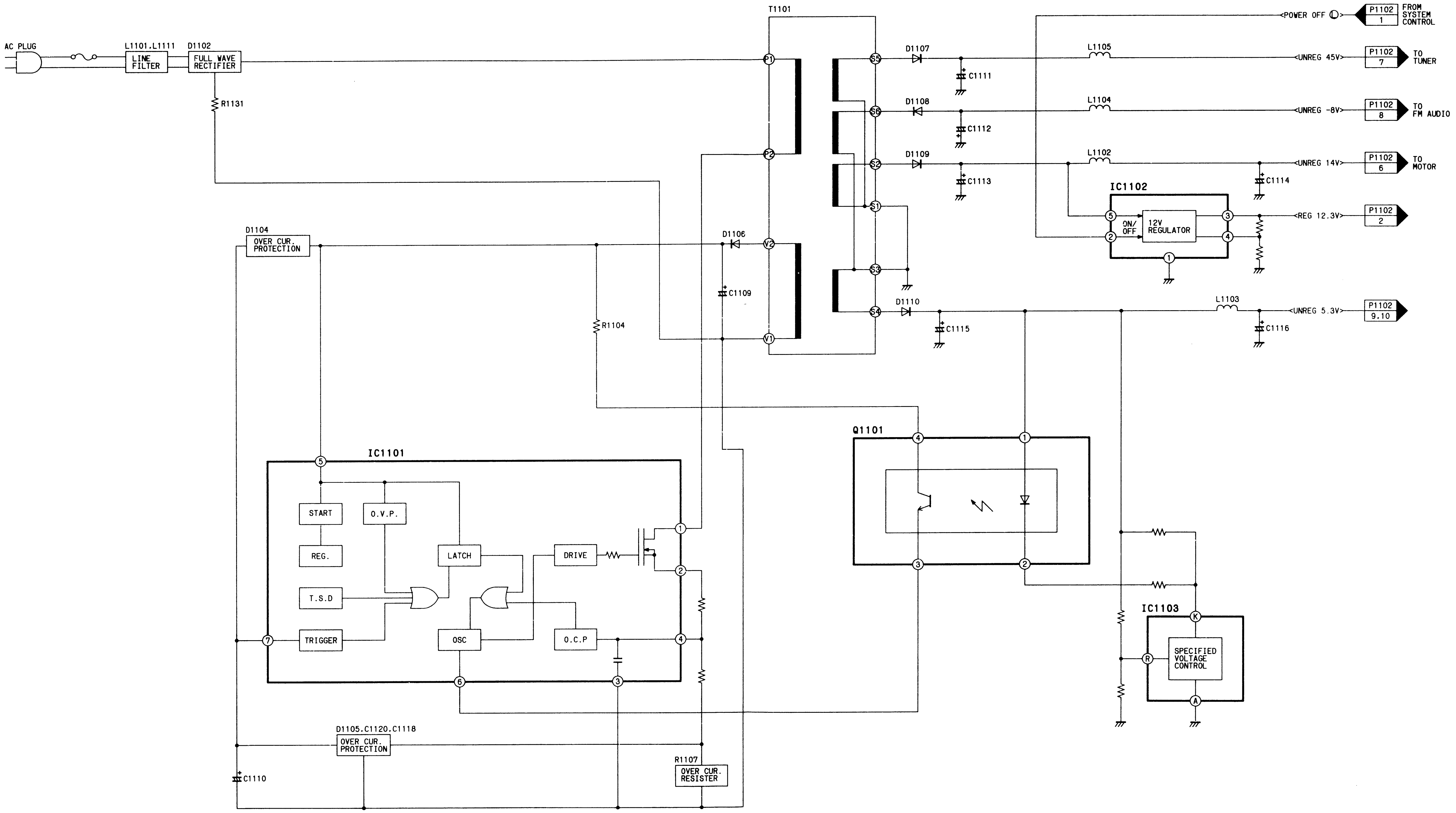
⬅ MAIN SIGNAL PATH IN REC MODE

⇦ MAIN SIGNAL PATH IN PLAYBACK MODE

⬅■ 5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE

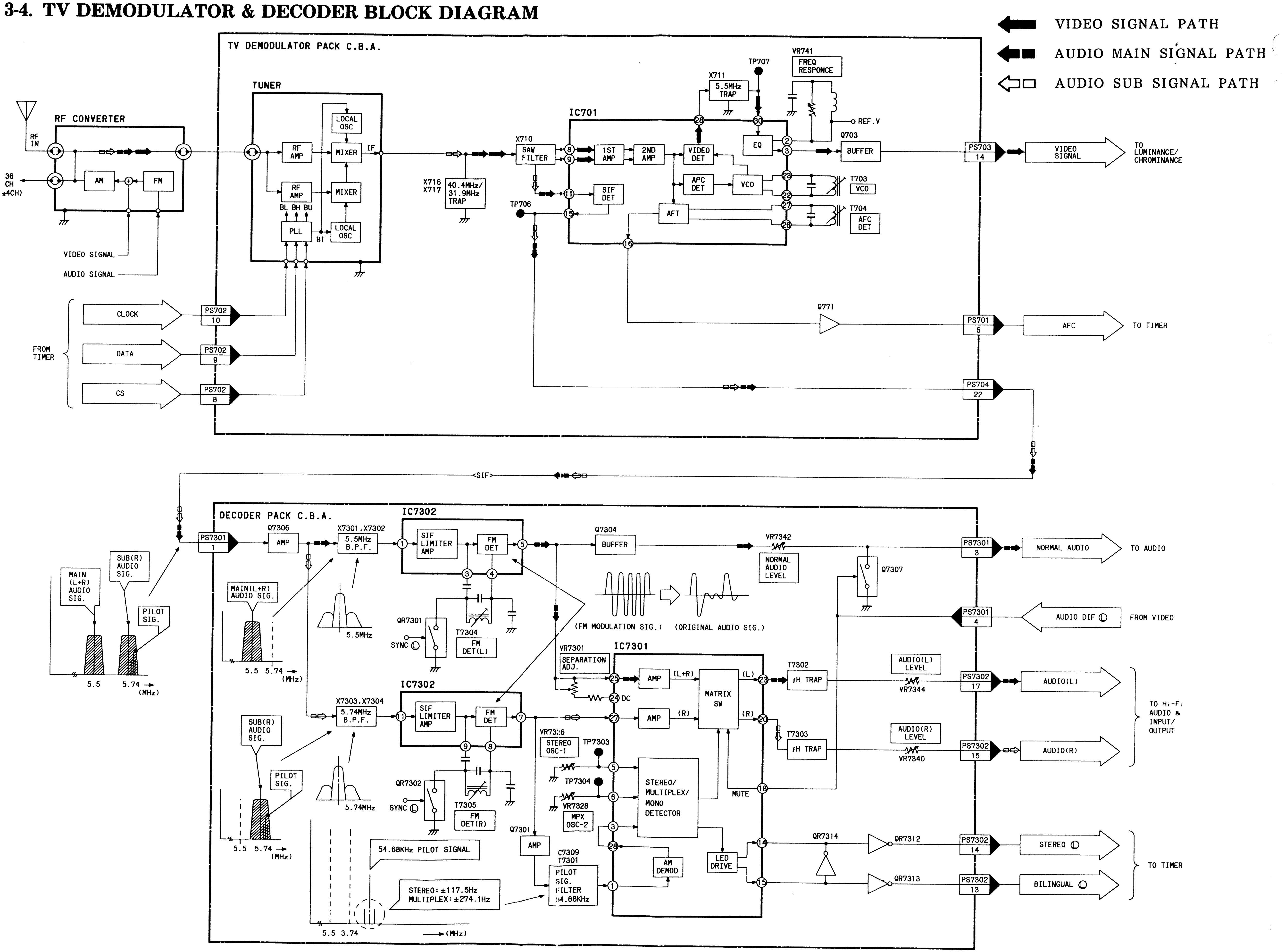
⇦□ 5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

3-3. POWER BLOCK DIAGRAM



AC PLUG
L1101.L1111
LINE FILTER
D1102
FULL WAVE RECTIFIER
R1131
T1101
P1
P2
V2
V1
S5
S6
S2
S1
S3
S4
D1107
D1108
D1109
D1110
D1106
C1111
C1112
C1113
C1115
C1109
L1105
L1104
L1102
L1103
C1114
C1116
IC1102
ON/ OFF
12V REGULATOR
<POWER OFF >
P1102 1
FROM SYSTEM CONTROL
<UNREG 45V>
P1102 7
TO TUNER
<UNREG -8V>
P1102 8
TO FM AUDIO
<UNREG 14V>
P1102 6
TO MOTOR
<REG 12.3V>
P1102 2
<UNREG 5.3V>
P1102 9.10
D1104
OVER CUR. PROTECTION
R1104
Q1101
IC1101
START
O.V.P.
REG.
LATCH
DRIVE
T.S.D
TRIGGER
OSC
O.C.P
IC1103
SPECIFIED VOLTAGE CONTROL
K
R
A
D1105.C1120.C1118
OVER CUR. PROTECTION
R1107
OVER CUR. RESISTER
C1110

3-4. TV DEMODULATOR & DECODER BLOCK DIAGRAM

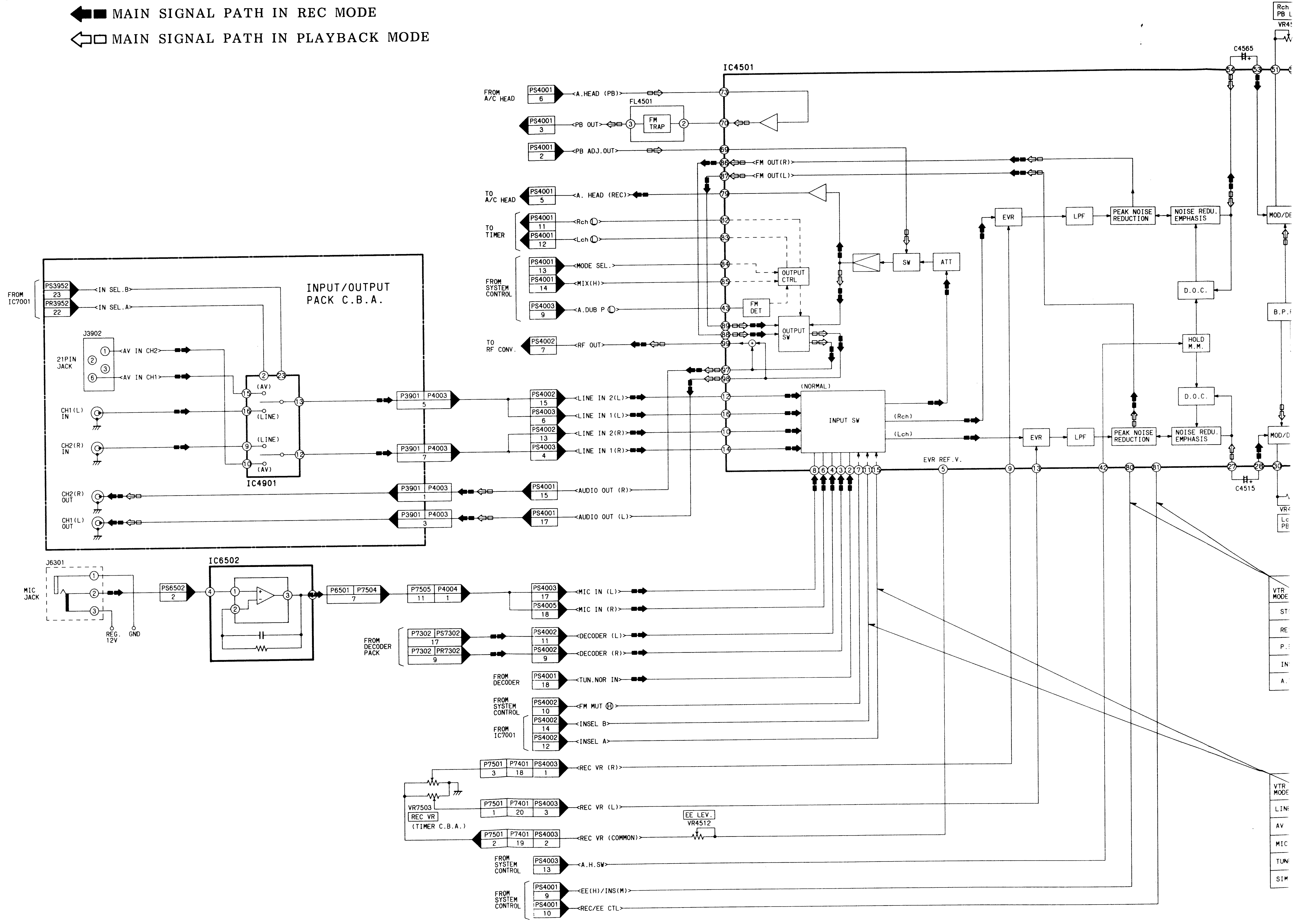

VIDEO SIGNAL PATH
AUDIO MAIN SIGNAL PATH
AUDIO SUB SIGNAL PATH
TV DEMODULATOR PACK C.B.A.
RF CONVERTER
RF IN
36 CH (±4CH)
AM
FM
VIDEO SIGNAL
AUDIO SIGNAL
TUNER
RF AMP
MIXER
LOCAL OSC
PLL
BL BH BU
BT
IF
FROM TIMER
CLOCK
DATA
CS
PS702 10
PS702 9
PS702 8
X716 X717
40.4MHz/ 31.9MHz TRAP
X710
SAW FILTER
IC701
1ST AMP
2ND AMP
VIDEO DET
APC DET
VCO
AFT
SIF DET
EQ
TP706
TP707
X711
5.5MHz TRAP
VR741
FREQ RESPONCE
REF.V
Q703
BUFFER
T703
VCO
T704
AFC DET
Q771
PS703 14
VIDEO SIGNAL
TO LUMINANCE/ CHROMINANCE
PS701 6
AFC
TO TIMER
PS704 22
SIF
DECODER PACK C.B.A.
PS7301 1
Q7306
AMP
X7301.X7302
5.5MHz B.P.F.
IC7302
SIF LIMITER AMP
FM DET
QR7301
SYNC Ⓛ
T7304
FM DET(L)
5.5MHz
MAIN (L+R) AUDIO SIG.
SUB(R) AUDIO SIG.
PILOT SIG.
5.5
5.74
(MHz)
MAIN(L+R) AUDIO SIG.
X7303.X7304
5.74MHz B.P.F.
QR7302
T7305
FM DET(R)
5.74MHz
54.68KHz PILOT SIGNAL
STEREO: ±117.5Hz
MULTIPLEX: ±274.1Hz
5.5 3.74
Q7304
BUFFER
VR7342
NORMAL AUDIO LEVEL
Q7307
PS7301 3
NORMAL AUDIO
TO AUDIO
PS7301 4
AUDIO DIF Ⓛ
FROM VIDEO
(FM MODULATION SIG.)
(ORIGINAL AUDIO SIG.)
VR7301
SEPARATION ADJ.
IC7301
AMP
(L+R)
(R)
MATRIX SW
(L)
DC
VR7326
STEREO OSC-1
TP7303
TP7304
VR7328
MPX OSC-2
STEREO/ MULTIPLEX/ MONO DETECTOR
MUTE
AM DEMOD
LED DRIVE
Q7301
C7309 T7301
PILOT SIG. FILTER 54.68KHz
T7302
fH TRAP
T7303
AUDIO(L) LEVEL
VR7344
AUDIO(R) LEVEL
VR7340
PS7302 17
AUDIO(L)
PS7302 15
AUDIO(R)
TO Hi-Fi AUDIO & INPUT/ OUTPUT
QR7314
QR7312
QR7313
PS7302 14
STEREO Ⓛ
PS7302 13
BILINGUAL Ⓛ
TO TIMER

Back Page:
POWER Section

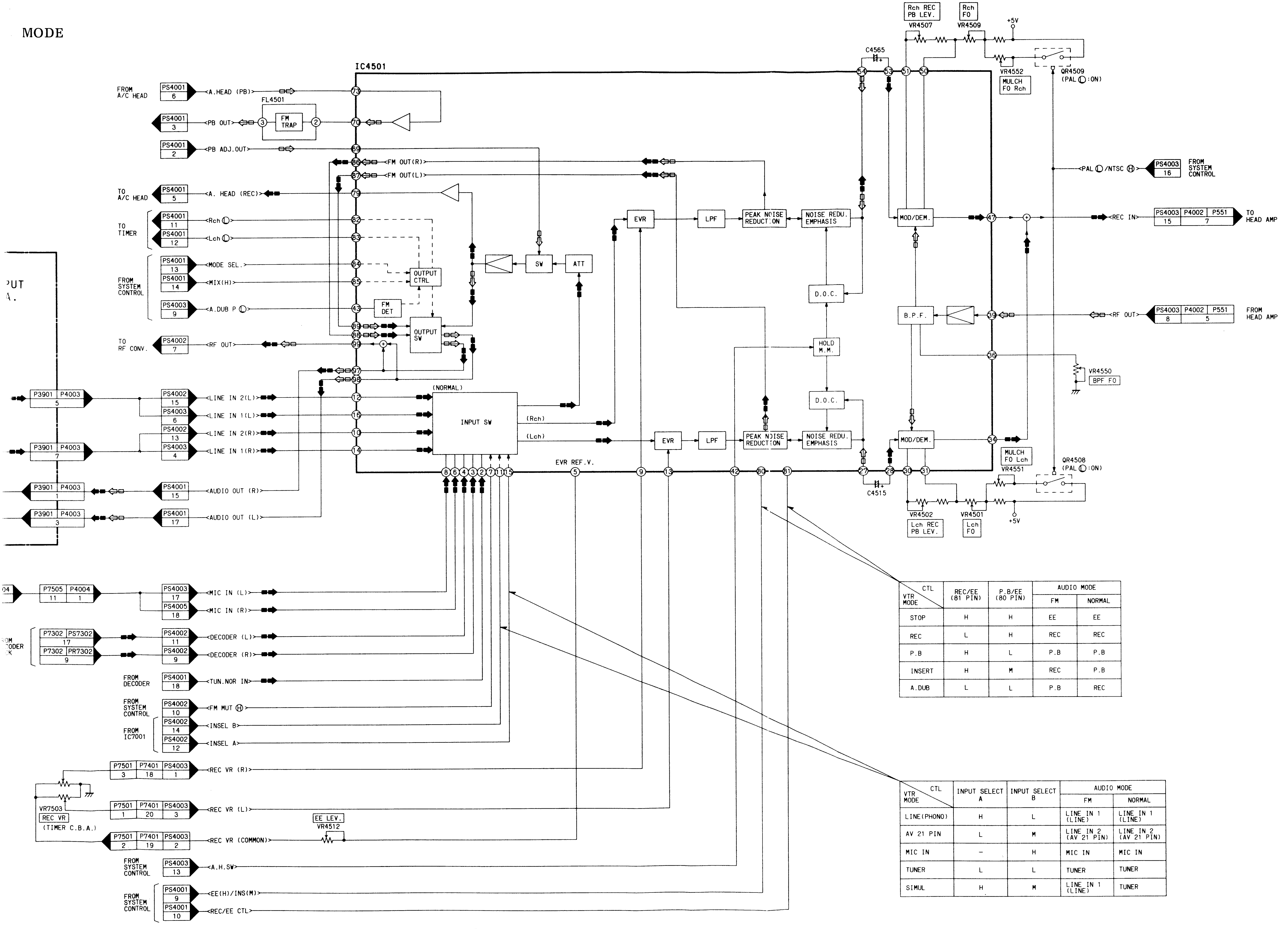
3-5. Hi-Fi AUDIO BLOCK DIAGRAM

◀■ MAIN SIGNAL PATH IN REC MODE

◁□ MAIN SIGNAL PATH IN PLAYBACK MODE


IC4501
FROM A/C HEAD
PS4001 6
<A.HEAD (PB)>
FL4501
FM TRAP
PS4001 3
<PB OUT>
PS4001 2
<PB ADJ.OUT>
<FM OUT(R)>
<FM OUT(L)>
TO A/C HEAD
PS4001 5
<A. HEAD (REC)>
TO TIMER
PS4001 11
<Rch L>
PS4001 12
<Lch L>
FROM SYSTEM CONTROL
PS4001 13
<MODE SEL.>
PS4001 14
<MIX(H)>
PS4003 9
<A.DUB P L>
OUTPUT CTRL
FM DET
OUTPUT SW
TO RF CONV.
PS4002 7
<RF OUT>
SW
ATT
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D.O.C.
HOLD M.M.
MOD/DE
B.P.F
Rch PB L
VR45
C4565
C4515
VR4
Lch PB
(NORMAL)
INPUT SW
(Rch)
(Lch)
EVR REF.V.
INPUT/OUTPUT PACK C.B.A.
FROM IC7001
PS3952 23
<IN SEL.B>
PR3952 22
<IN SEL.A>
J3902
21PIN JACK
<AV IN CH2>
<AV IN CH1>
(AV)
(LINE)
(LINE)
(AV)
IC4901
CH1(L) IN
CH2(R) IN
CH2(R) OUT
CH1(L) OUT
P3901 P4003 5
P3901 P4003 7
P3901 P4003 1
P3901 P4003 3
PS4002 15
<LINE IN 2(L)>
PS4003 6
<LINE IN 1(L)>
PS4002 13
<LINE IN 2(R)>
PS4003 4
<LINE IN 1(R)>
PS4001 15
<AUDIO OUT (R)>
PS4001 17
<AUDIO OUT (L)>
J6301
MIC JACK
REG. 12V
GND
PS6502 2
IC6502
P6501 P7504 7
P7505 P4004 11 1
PS4003 17
<MIC IN (L)>
PS4005 18
<MIC IN (R)>
FROM DECODER PACK
P7302 PS7302 17
P7302 PR7302 9
PS4002 11
<DECODER (L)>
PS4002 9
<DECODER (R)>
FROM DECODER
PS4001 18
<TUN.NOR IN>
FROM SYSTEM CONTROL
PS4002 10
<FM MUT H>
FROM IC7001
PS4002 14
<INSEL B>
PS4002 12
<INSEL A>
P7501 P7401 PS4003 3 18 1
<REC VR (R)>
VR7503
REC VR
(TIMER C.B.A.)
P7501 P7401 PS4003 1 20 3
<REC VR (L)>
EE LEV.
VR4512
P7501 P7401 PS4003 2 19 2
<REC VR (COMMON)>
FROM SYSTEM CONTROL
PS4003 13
<A.H.SW>
FROM SYSTEM CONTROL
PS4001 9
<EE(H)/INS(M)>
PS4001 10
<REC/EE CTL>
VTR MODE
ST
RE
P.
IN
A.
VTR MODE
LIN
AV
MIC
TUN
SIM

MODE

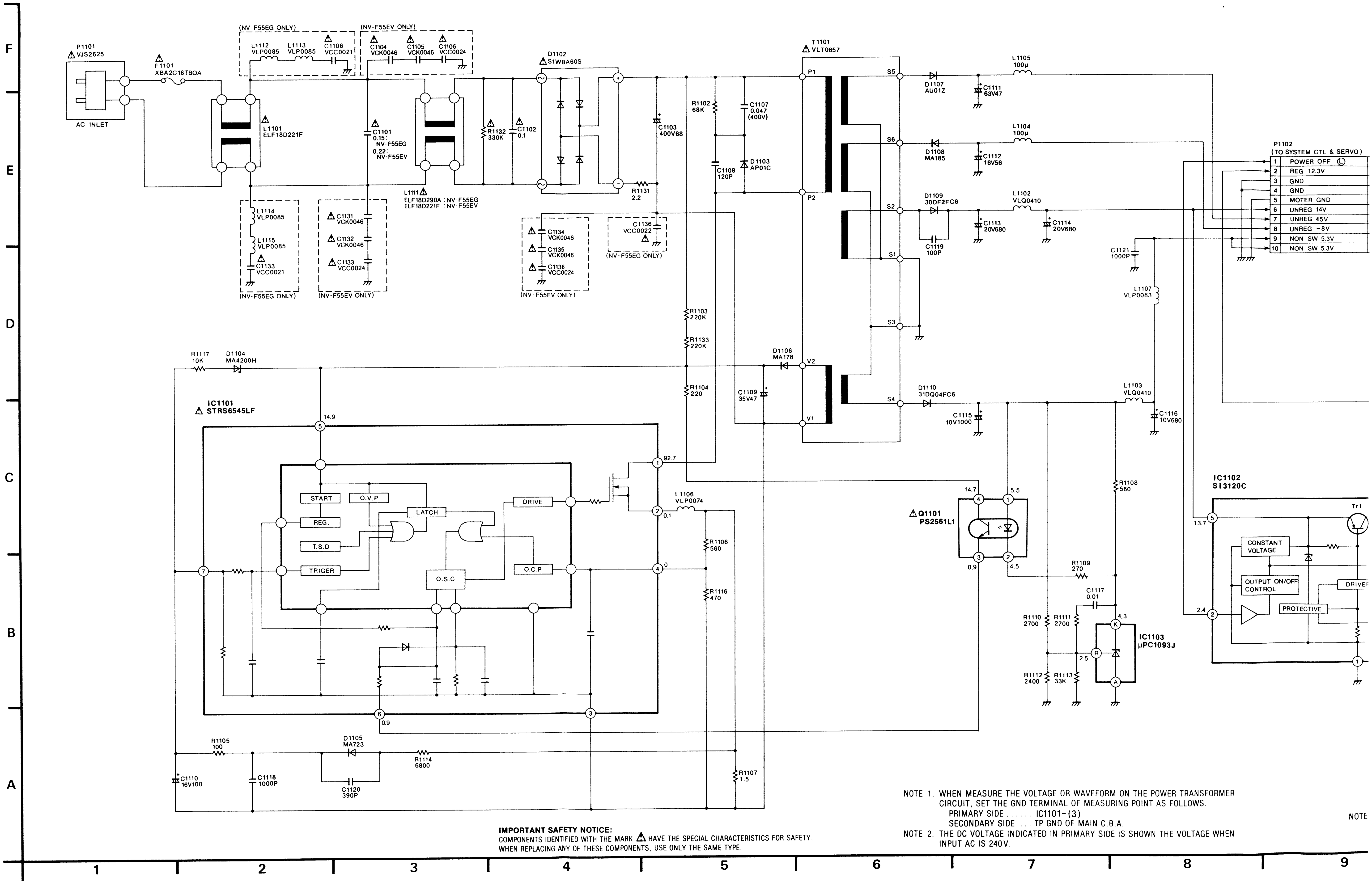

IC4501
FROM A/C HEAD
PS4001 6
<A.HEAD (PB)>
FL4501
FM TRAP
PS4001 3
<PB OUT>
PS4001 2
<PB ADJ.OUT>
<FM OUT(R)>
<FM OUT(L)>
TO A/C HEAD
PS4001 5
<A. HEAD (REC)>
TO TIMER
PS4001 11
<Rch Ⓛ>
PS4001 12
<Lch Ⓛ>
FROM SYSTEM CONTROL
PS4001 13
<MODE SEL.>
PS4001 14
<MIX(H)>
PS4003 9
<A.DUB P Ⓛ>
OUTPUT CTRL
FM DET
OUTPUT SW
TO RF CONV.
PS4002 7
<RF OUT>
SW
ATT
(NORMAL)
INPUT SW
(Rch)
(Lch)
EVR
LPF
PEAK NOISE REDUCTION
NOISE REDU. EMPHASIS
D.O.C.
HOLD M.M.
EVR REF.V.
P3901 P4003 5
P3901 P4003 7
P3901 P4003 1
P3901 P4003 3
PS4002 15
<LINE IN 2(L)>
PS4003 6
<LINE IN 1(L)>
PS4002 13
<LINE IN 2(R)>
PS4003 4
<LINE IN 1(R)>
PS4001 15
<AUDIO OUT (R)>
PS4001 17
<AUDIO OUT (L)>
04
P7505 P4004 11 1
PS4003 17
<MIC IN (L)>
PS4005 18
<MIC IN (R)>
P7302 PS7302 17
P7302 PR7302 9
PS4002 11
<DECODER (L)>
PS4002 9
<DECODER (R)>
FROM DECODER
PS4001 18
<TUN.NOR IN>
FROM SYSTEM CONTROL
PS4002 10
<FM MUT Ⓗ>
FROM IC7001
PS4002 14
<INSEL B>
PS4002 12
<INSEL A>
P7501 P7401 PS4003 3 18 1
<REC VR (R)>
P7501 P7401 PS4003 1 20 3
<REC VR (L)>
VR7503
REC VR
(TIMER C.B.A.)
P7501 P7401 PS4003 2 19 2
<REC VR (COMMON)>
EE LEV.
VR4512
FROM SYSTEM CONTROL
PS4003 13
<A.H.SW>
FROM SYSTEM CONTROL
PS4001 9
<EE(H)/INS(M)>
PS4001 10
<REC/EE CTL>
C4565
Rch REC PB LEV.
VR4507
Rch FO
VR4509
+5V
VR4552
MULCH FO Rch
QR4509 (PAL Ⓛ:ON)
<PAL Ⓛ/NTSC Ⓗ>
PS4003 16
FROM SYSTEM CONTROL
MOD/DEM.
<REC IN>
PS4003 P4002 P551 15 7
TO HEAD AMP
B.P.F.
<RF OUT>
PS4003 P4002 P551 8 5
FROM HEAD AMP
VR4550
BPF FO
MULCH FO Lch
VR4551
QR4508 (PAL Ⓛ:ON)
C4515
VR4502
Lch REC PB LEV.
VR4501
Lch FO
+5V
73 70 69 86 87 79 82 83 84 85 43 89 88 99 97 98 12 16 10 14
8 6 4 3 2 7 11 15 5 9 13 42 80 81 27 28 30 31 34 36 39 47 50 51 53 54
3 2

CTL VTR MODE	REC/EE (81 PIN)	P.B/EE (80 PIN)	AUDIO MODE	
			FM	NORMAL
STOP	H	H	EE	EE
REC	L	H	REC	REC
P.B	H	L	P.B	P.B
INSERT	H	M	REC	P.B
A.DUB	L	L	P.B	REC

CTL VTR MODE	INPUT SELECT A	INPUT SELECT B	AUDIO MODE	
			FM	NORMAL
LINE(PHONO)	H	L	LINE IN 1 (LINE)	LINE IN 1 (LINE)
AV 21 PIN	L	M	LINE IN 2 (AV 21 PIN)	LINE IN 2 (AV 21 PIN)
MIC IN	–	H	MIC IN	MIC IN
TUNER	L	L	TUNER	TUNER
SIMUL	H	M	LINE IN 1 (LINE)	TUNER

Next Page:
POWER Section

3-6. POWER SCHEMATIC DIAGRAM

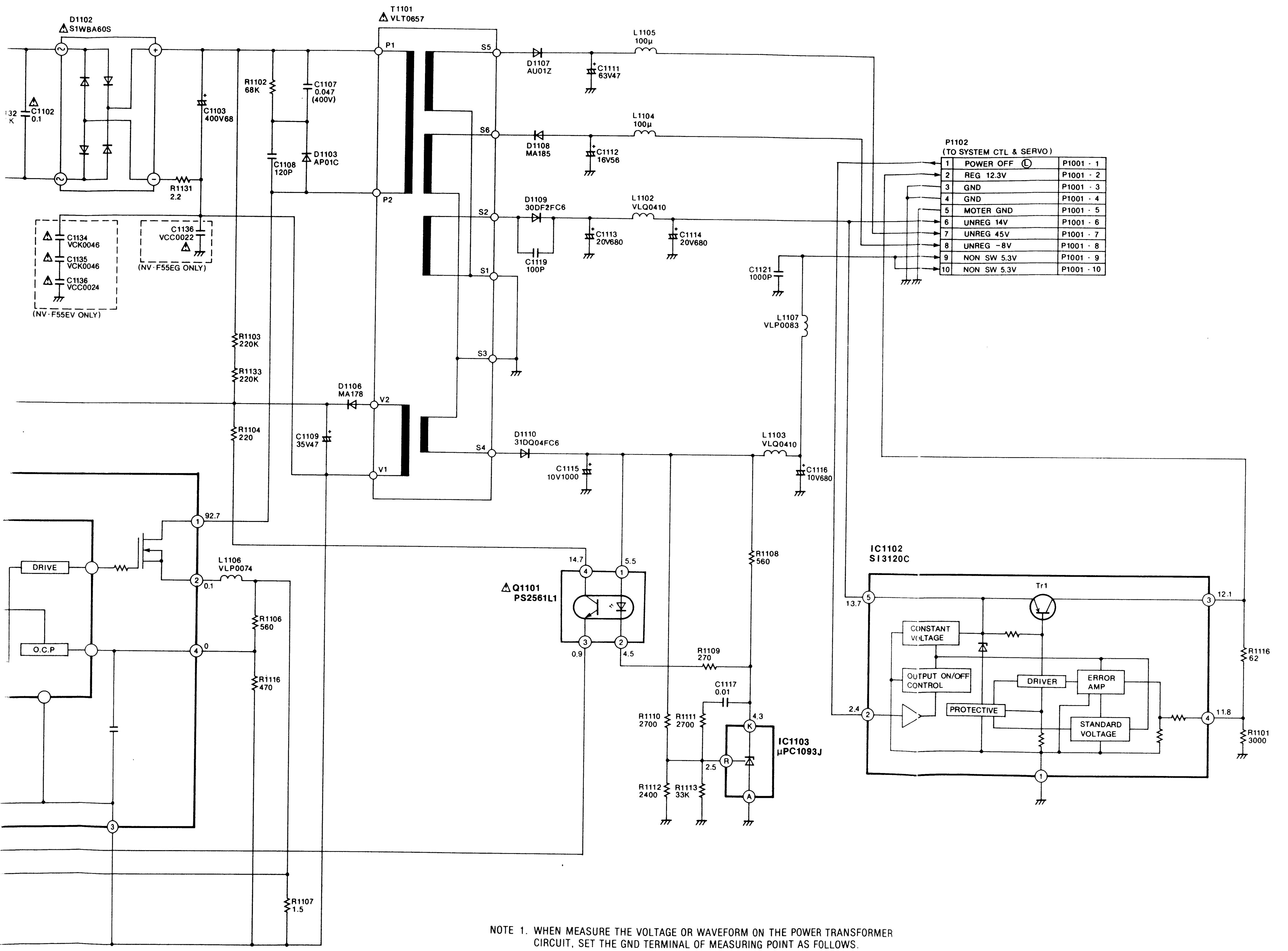


F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
P1101
VJS2625
AC INLET
F1101
XBA2C16TBOA
(NV-F55EG ONLY)
L1112
VLP0085
L1113
VLP0085
C1106
VCC0021
(NV-F55EV ONLY)
C1104
VCK0046
C1105
VCK0046
C1106
VCC0024
L1101
ELF18D221F
C1101
0.15: NV-F55EG
0.22: NV-F55EV
L1111
ELF18D290A : NV-F55EG
ELF18D221F : NV-F55EV
R1132
330K
C1102
0.1
D1102
S1WBA60S
C1103
400V68
R1131
2.2
L1114
VLP0085
L1115
VLP0085
C1133
VCC0021
(NV-F55EG ONLY)
C1131
VCK0046
C1132
VCK0046
C1133
VCC0024
(NV-F55EV ONLY)
C1134
VCK0046
C1135
VCK0046
C1136
VCC0024
(NV-F55EV ONLY)
C1136
VCC0022
(NV-F55EG ONLY)
R1102
68K
C1107
0.047
(400V)
C1108
120P
D1103
AP01C
T1101
VLT0657
P1
P2
S5
S6
S2
S1
S3
V2
V1
S4
D1107
AU01Z
C1111
63V47
L1105
100μ
D1108
MA185
C1112
16V56
L1104
100μ
D1109
30DF2FC6
C1113
20V680
L1102
VLQ0410
C1114
20V680
C1119
100P
C1121
1000P
L1107
VLP0083
P1102
(TO SYSTEM CTL & SERVO)
1 POWER OFF Ⓛ
2 REG 12.3V
3 GND
4 GND
5 MOTER GND
6 UNREG 14V
7 UNREG 45V
8 UNREG -8V
9 NON SW 5.3V
10 NON SW 5.3V
R1103
220K
R1133
220K
R1104
220
D1106
MA178
C1109
35V47
D1110
31DQ04FC6
C1115
10V1000
L1103
VLQ0410
C1116
10V680
R1117
10K
D1104
MA4200H
IC1101
STRS6545LF
14.9
92.7
0.1
0
0.9
START
O.V.P
LATCH
REG.
DRIVE
T.S.D
TRIGER
O.S.C
O.C.P
L1106
VLP0074
R1106
560
R1116
470
R1107
1.5
Q1101
PS2561L1
14.7
5.5
0.9
4.5
R1108
560
R1109
270
C1117
0.01
4.3
2.5
R1110
2700
R1111
2700
R1112
2400
R1113
33K
IC1103
μPC1093J
K
R
A
IC1102
SI3120C
13.7
2.4
Tr1
CONSTANT VOLTAGE
OUTPUT ON/OFF CONTROL
PROTECTIVE
DRIVE
R1105
100
C1110
16V100
C1118
1000P
D1105
MA723
C1120
390P
R1114
6800

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ...... IC1101-(3)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.
NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

NOTE


D1102
S1WBA60S
C1102
0.1
C1103
400V68
R1131
2.2
C1134
VCK0046
C1135
VCK0046
C1136
VCC0024
(NV-F55EV ONLY)
C1136
VCC0022
(NV-F55EG ONLY)
R1102
68K
C1107
0.047
(400V)
C1108
120P
D1103
AP01C
T1101
VLT0657
P1
P2
S5
S6
S2
S1
S3
S4
V2
V1
D1107
AU01Z
C1111
63V47
L1105
100μ
D1108
MA185
C1112
16V56
L1104
100μ
D1109
30DF2FC6
C1119
100P
C1113
20V680
L1102
VLQ0410
C1114
20V680
C1121
1000P
L1107
VLP0083
R1103
220K
R1133
220K
D1106
MA178
R1104
220
C1109
35V47
D1110
31DQ04FC6
C1115
10V1000
L1103
VLQ0410
C1116
10V680
92.7
DRIVE
L1106
VLP0074
0.1
O.C.P
0
R1106
560
R1116
470
R1107
1.5
14.7
5.5
Q1101
PS2561L1
0.9
4.5
R1108
560
R1109
270
C1117
0.01
4.3
R1110
2700
R1111
2700
2.5
R1112
2400
R1113
33K
IC1103
μPC1093J
K
R
A
IC1102
SI3120C
Tr1
13.7
12.1
CONSTANT VOLTAGE
OUTPUT ON/OFF CONTROL
DRIVER
ERROR AMP
PROTECTIVE
STANDARD VOLTAGE
2.4
11.8
R1116
62
R1101
3000
P1102
(TO SYSTEM CTL & SERVO)

1	POWER OFF Ⓛ	P1001 - 1
2	REG 12.3V	P1001 - 2
3	GND	P1001 - 3
4	GND	P1001 - 4
5	MOTER GND	P1001 - 5
6	UNREG 14V	P1001 - 6
7	UNREG 45V	P1001 - 7
8	UNREG -8V	P1001 - 8
9	NON SW 5.3V	P1001 - 9
10	NON SW 5.3V	P1001 - 10

IMPORTANT SAFETY NOTICE:
OMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

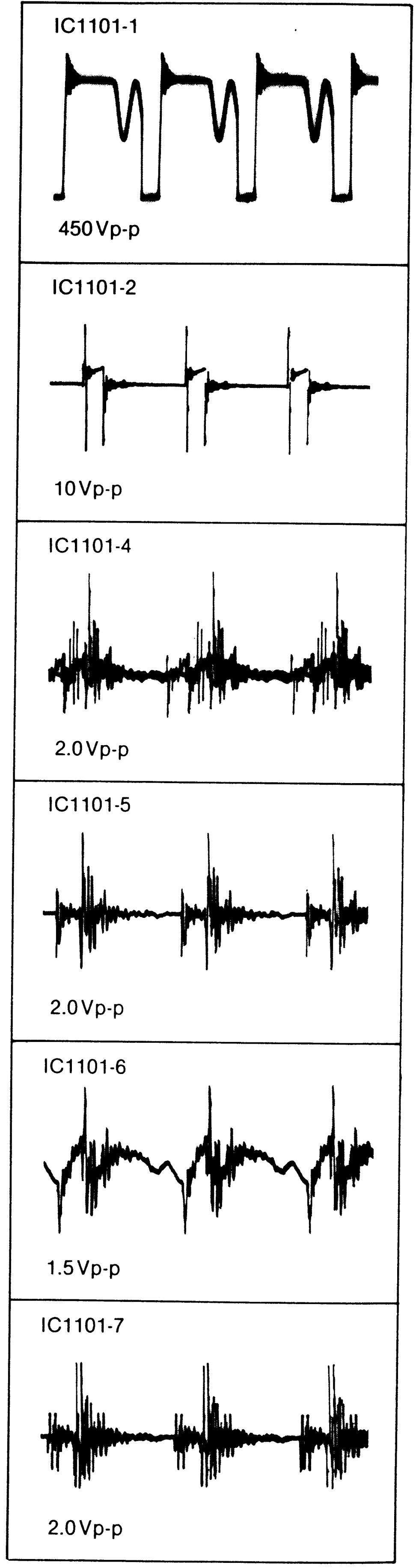
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS.
PRIMARY SIDE ...... IC1101-(3)
SECONDARY SIDE ... TP GND OF MAIN C.B.A.

NOTE 2. THE DC VOLTAGE INDICATED IN PRIMARY SIDE IS SHOWN THE VOLTAGE WHEN INPUT AC IS 240V.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4 5 6 7 8 9 10

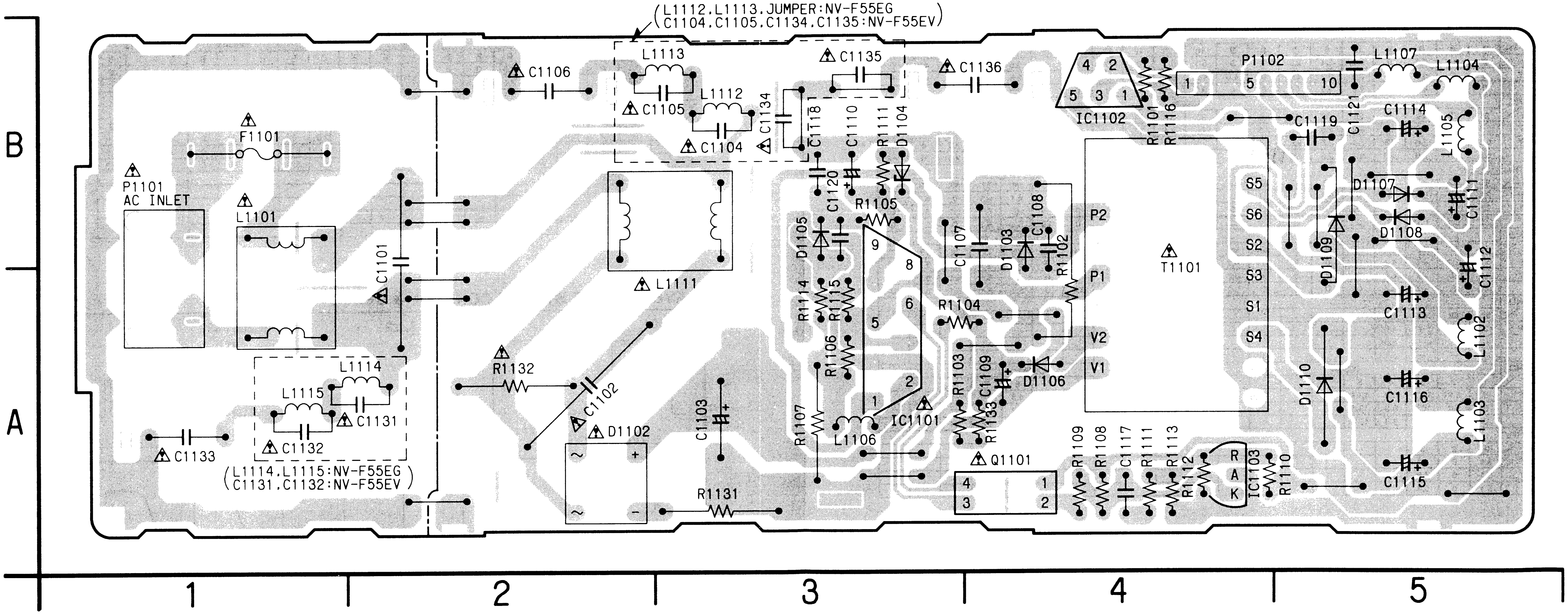
WAVEFORM OF POWER



3-7. POWER C.B.A. (VEP01487A: NV-F55EG) (VEP01487B: NV-F55EV)

POWER C.B.A.	
Transistor	
Q1101	A-4
Integrated Circuit	
IC1101 IC1102 IC1103	A-3 B-4 A-4
Connector	
P1101 P1102	B-1 B-4

ADDRESS INFORMATION


(L1112, L1113, JUMPER:NV-F55EG
C1104, C1105, C1134, C1135:NV-F55EV)
(L1114, L1115:NV-F55EG
C1131, C1132:NV-F55EV)
B
A
1
2
3
4
5
P1101
AC INLET
F1101
L1101
C1101
C1133
L1114
L1115
C1131
C1132
C1106
R1132
C1102
D1102
L1113
C1105
L1112
C1104
C1134
C1135
L1111
C1103
R1131
C1118
C1110
R1111
D1104
C1120
R1105
D1105
R1114
R1115
R1106
R1107
L1106
IC1101
R1103
C1109
R1133
C1136
C1107
D1103
C1108
R1102
R1104
D1106
Q1101
IC1102
R1101
R1116
P1102
T1101
P2
P1
V2
V1
S5
S6
S2
S3
S1
S4
C1119
C1121
L1107
L1104
C1114
L1105
D1107
D1108
D1109
C1111
C1112
C1113
L1102
D1110
C1116
L1103
C1115
R1109
R1108
C1117
R1111
R1113
R1112
IC1103
R1110
R
A
K

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (SP MODE)

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
STOP 1	2.5	2.5	2.5	0	2.5	2.5	2.5	5.2												
PLAY	2.5	2.5	2.5	0	2.5	2.5	2.5	5.2												
F.F.	2.5	2.5	2.5	0	2.5	2.5	2.5	5.2												
REF. NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP 1	7.0	0	7.0	1.4	2.2	2.1	2.1	2.2	2.2	2.1	2.1	0	5.2	3.8	2.8	0.2	5.2	0	0.4	0
PLAY	2.2	0.1	2.2	1.4	2.2	2.1	2.1	2.1	2.2	2.2	0	0	5.2	3.8	2.8	2.6	5.2	0.7	0.4	0.1
F.F.	6.7	0.1	6.7	1.4	2.1	2.1	2.1	2.1	2.2	2.2	0	0	5.2	3.8	2.8	2.6	5.2	0.7	0.4	0.1
REF. NO.	IC2002																			
MODE	21	22	23	24																
STOP 1	0	0.4	7.0	13.6																
PLAY	0	0.6	2.2	10.4																
F.F.	0	0.6	6.5	13.5																
REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP 1	13.6	13.6	0	0	0	2.6	4.3	2.7	2.5	1.2	5.2	4.3	4.3	3.9	5.1	13.6	13.6	0		
PLAY	10.6	10.6	0.1	0.6	0.1	2.6	2.5	2.7	2.6	2.8	5.1	3.8	3.8	3.7	1.2	10.4	9.5	0.1		
F.F.	13.5	13.5	0	0	0	2.6	4.3	2.7	2.5	1.3	5.2	4.3	4.3	3.9	5.1	13.5	13.5	0		
REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP 1	0	0	0.5	0	0.6	5.1	2.0	0	0	5.1	5.1	0	0	0	0	2.5	3.3	3.3	4.9	0
PLAY	0	0	0.5	0	3.9	5.1	2.0	0	4.0	4.5	5.1	0	0	0	0	2.5	3.3	3.3	4.9	0
F.F.	0	0	0.5	0	2.7	5.1	2.0	0	0	5.0	5.1	0	0	0	0	2.5	3.3	3.3	2.5	0
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP 1	5.1	5.1	0.2	4.3	0.2	2.5	2.5	2.5	0	2.5	2.4	2.7	5.0	0	0	0	2.5	2.5	0	2.5
PLAY	5.1	5.1	2.6	2.5	3.4	2.5	2.5	2.5	0	2.5	2.8	2.7	5.0	0	0	0	0	2.5	0	2.8
F.F.	5.1	5.1	2.6	4.3	0.2	2.5	2.5	2.5	0	2.5	2.5	0.1	5.0	0	0	0	2.5	2.5	0	2.8
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP 1	2.5	5.1	5.2	0	0	5.1	0	5.1	0	5.0	5.1	5.1	0	0	5.0	5.1	5.1	0	5.1	0
PLAY	2.5	5.1	1.5	3.2	4.9	5.1	5.1	5.1	0	5.0	5.1	5.1	0	0	5.0	0	5.1	5.1	5.1	5.0
F.F.	2.5	5.1	5.2	0	0	5.1	0	5.1	0	5.0	0	5.1	0	0	4.9	5.1	5.1	0	5.1	0
REF. NO.	IC6001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP 1	5.1	2.1	4.7	4.7	0	0	0	0	0.2	0	0	0	5.1	5.1	0	5.1	5.1	5.1	5.1	0
PLAY	5.1	0	4.7	4.7	0	0	0	0	0.2	0	0	5.1	0	0	0	0	5.1	5.1	5.1	0
F.F.	5.1	0	4.7	4.7	0	0	0	0	0.2	0	0	0	5.1	5.1	0	5.1	5.1	5.1	5.1	0
REF. NO.	IC6001																			
MODE	81	82	83	84																
STOP 1	0	–	–	4.8																
PLAY	0	–	–	4.8																
F.F.	0	–	–	5.1																
REF. NO.	IC6002										IC6003									
MODE	1	2	3	4	5						1	2	3	4	5	6	7	8		
STOP 1	0	5.2	13.7	9.0	13.7						2.5	2.5	2.5	0	2.4	4.3	0.6	5.1		
PLAY	0	5.2	10.4	9.0	13.5						2.5	2.5	2.5	0	2.6	4.3	4.0	5.1		
F.F.	0	5.2	13.5	8.9	13.6						2.5	2.5	2.5	0	2.6	2.1	2.6	5.1		
REF. NO.	IC6004																			
MODE	1	2	3																	
STOP 1	5.1	0	4.8																	
PLAY	5.1	0	4.8																	
F.F.	5.1	0	5.1																	

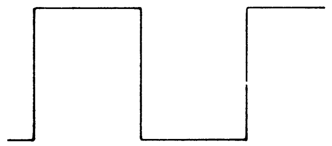
Back Page:
POWER Section

SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (SP MODE)

REF. NO.	Q1401			Q6001			Q6002			Q6003			Q6004			Q6005		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	0	0.2	0.2	0.5	13.7	0.3	0	0.1	0	0.1	13.7	0.2	13.7	13.7	5.0	5.0	13.7	0.2
PLAY	0	0.2	0.2	0.5	13.5	0.3	0	0	0	0.1	13.5	0.2	13.5	13.5	4.7	4.7	13.5	0.2
F.F.	0	0.2	0.2	0.7	13.6	0.5	0	0	0	0	13.5	0.2	13.5	13.5	4.8	4.8	13.5	0.2
REF. NO.	Q6007			Q6008			Q6009			Q6010			Q6011			Q6012		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	5.2	5.1	5.1	5.2	5.4	5.9	12.0	0.3	12.0	12.0	0.4	11.6	12.0	0.3	12.0	12.1	12.0	11.3
PLAY	5.2	5.1	5.1	5.2	5.4	5.9	12.0	0.3	12.0	12.0	0.4	11.6	12.0	11.9	11.3	12.1	12.0	11.3
F.F.	5.2	5.1	5.1	5.2	5.4	5.9	12.0	0.3	12.0	12.0	0.4	11.6	12.0	11.9	11.3	12.1	12.0	11.3
REF. NO.	QR2001			QR2002			QR2003			QR2004			QR2005			QR2006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	5.2	5.2	0	5.2	0	5.1	0	5.1	0	4.1	5.2	4.6	0	0.1	5.1	5.1	4.6	5.0
PLAY	5.2	5.2	0	5.2	0	5.1	0	5.1	0	4.1	5.2	4.6	0	0.1	5.1	5.1	4.6	5.0
F.F.	5.2	5.2	0	5.2	0	5.1	0	5.1	0	4.1	5.2	4.6	0	0.1	5.1	5.1	4.6	5.0
REF. NO.	QR6001			QR6002			QR6003			QR6004			QR6005			QR6006		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	0	0.1	2.8	0	0	5.1	0	0	5.1	5.2	0.3	4.8	5.1	0	5.1	5.1	0.3	5.1
PLAY	0	9.0	0.6	0	9.0	0	0	9.0	0	5.2	0.3	5.0	5.1	0	5.1	5.1	0.3	5.1
F.F.	0	0.1	2.8	0	0	5.1	0	0	5.1	5.2	0.6	4.8	5.1	0	5.1	5.1	5.1	0
REF. NO.	QR6007			QR6008			QR6009			QR6011			QR6012			QR6013		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	0.3	0	4.8	0	2.5	0	0	9.7	0	0	4.4	−0.1	0	4.9	0.1	0	5.0	0
PLAY	0.3	0	4.8	0	2.5	0	0	9.7	0	0	4.4	0	0	0.4	0	0	5.0	0
F.F.	5.1	0	5.1	0	2.6	0	0	9.7	0	0	4.4	0	0	4.9	0	0	5.0	0
REF. NO.	QR6015			QR6016			QR6018			QR6019			QR6020			QR6021		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP 1	0	0	5.1	0	0	5.1	0	12.0	0	0	12.0	0	0	0	0	0	0.3	5.0
PLAY	0	0	5.1	0	0	5.1	0	12.0	0	0	0.1	5.1	0	0	0	0	0.3	5.0
F.F.	0	0.8	0	0	0	0	0	12.0	0	0	0.1	5.1	0	0	0	0	0.5	4.7
REF. NO.	QR6022																	
MODE	E	C	B															
STOP 1	5.0	5.0	5.0															
PLAY	5.0	5.0	5.0															
F.F.	5.0	5.0	4.6															

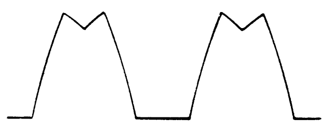
WAVEFORM OF SYSTEM CONTROL & SERVO

TP2001



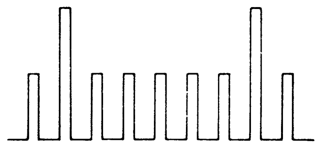
5.0Vp-p REC/PLAY

IC2002-1, 3, 23



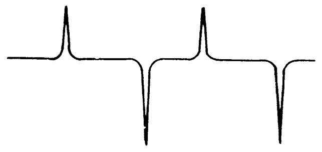
2.0Vp-p REC/PLAY

IC6001-43



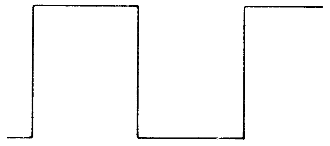
4.6Vp-p REC/PLAY

TP2002



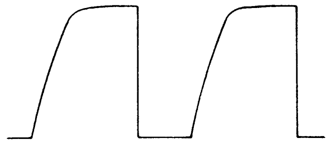
2.2Vp-p PLAY

IC6001-10



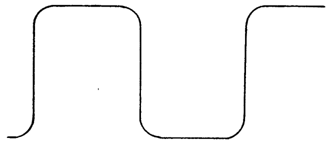
5.0Vp-p REC/PLAY

IC6001-44



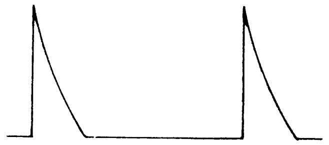
5.2Vp-p REC/PLAY

TP2015



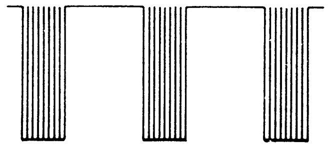
0.8Vp-p REC/PLAY

IC6001-26



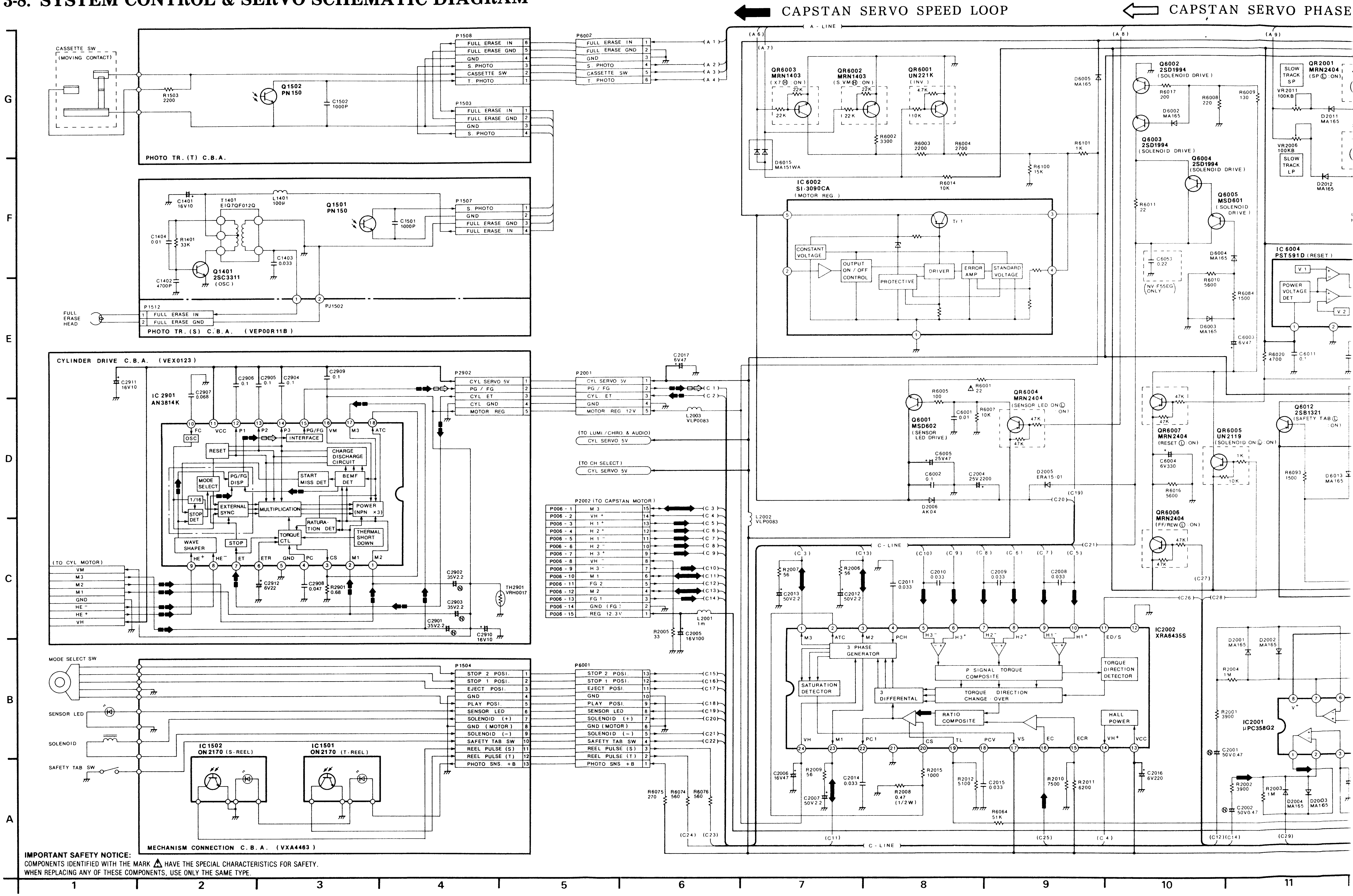
2.0Vp-p REC/PLAY

IC6001-63



5.0Vp-p REC/PLAY

3-8. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM

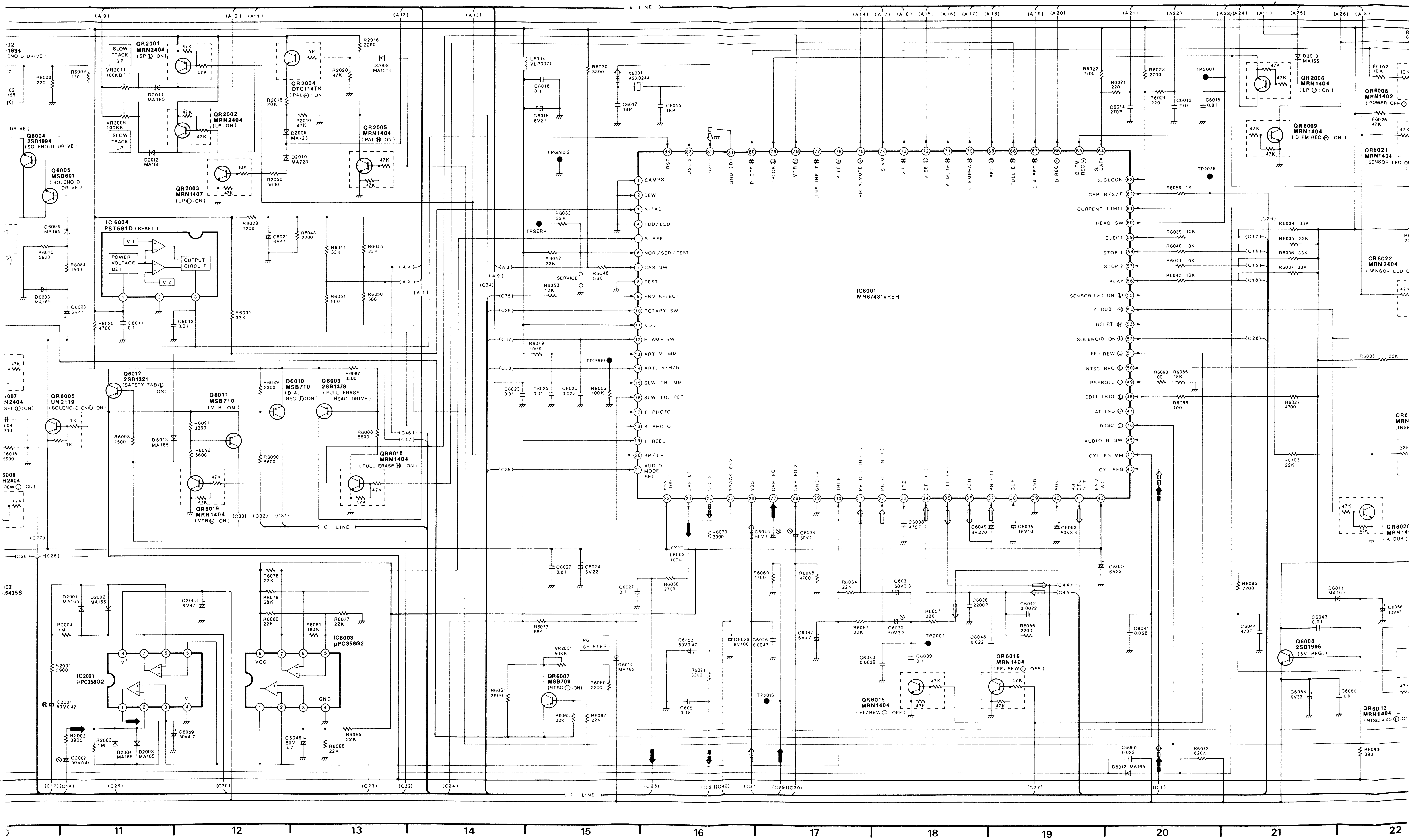

CAPSTAN SERVO SPEED LOOP
CAPSTAN SERVO PHASE
A - LINE
C - LINE
CASSETTE SW (MOVING CONTACT)
R1503 2200
Q1502 PN150
C1502 1000P
P1508
FULL ERASE IN
FULL ERASE GND
GND
S. PHOTO
CASSETTE SW
T. PHOTO
P1503
PHOTO TR. (T) C.B.A.
C1401 16V10
T1401 EIQ7QF012Q
L1401 100μ
Q1501 PN150
C1501 1000P
P1507
C1404 0.01
R1401 33K
C1403 0.033
Q1401 2SC3311 (OSC)
C1402 4700P
P1512
PJ1502
FULL ERASE HEAD
PHOTO TR. (S) C.B.A. (VEP00R11B)
P6002
CYLINDER DRIVE C.B.A. (VEX0123)
C2911 16V10
IC 2901 AN3814K
C2907 0.068
C2906 0.1
C2905 0.1
C2904 0.1
C2909 0.1
FC
VCC
P1
P2
P3
PG/FG
VM
M3
ATC
OSC
INTERFACE
RESET
CHARGE DISCHARGE CIRCUIT
MODE SELECT
PG/FG DISP
START MISS DET
BEMF DET
1/16
EXTERNAL SYNC
MULTIPLICATION
POWER (NPN ×3)
STOP DET
RATURATION DET
TORQUE CTL
THERMAL SHORT DOWN
WAVE SHAPER
STOP
HE+
HE−
ET
ETR
GND
PC
CS
M1
M2
C2912 6V22
C2908 0.047
R2901 0.68
C2902 35V2.2
C2903 35V2.2
C2901 35V2.2
C2910 16V10
TH2901 VRH0017
(TO CYL MOTOR)
VM
M3
M2
M1
GND
HE−
HE+
VH
P2902
CYL SERVO 5V
PG / FG
CYL ET
CYL GND
MOTOR REG
P2001
MOTOR REG 12V
C2017 6V47
L2003 VLP0083
(TO LUMI / CHRO & AUDIO)
CYL SERVO 5V
(TO CH SELECT)
P2002 (TO CAPSTAN MOTOR)
P006 - 1 M3
P006 - 2 VH+
P006 - 3 H1+
P006 - 4 H2+
P006 - 5 H1−
P006 - 6 H2−
P006 - 7 H3+
P006 - 8 VH−
P006 - 9 H3−
P006 - 10 M1
P006 - 11 FG2
P006 - 12 M2
P006 - 13 FG1
P006 - 14 GND (FG)
P006 - 15 REG 12.3V
L2001 1m
R2005 33
C2005 16V100
MODE SELECT SW
SENSOR LED
SOLENOID
SAFETY TAB SW
P1504
P6001
STOP 2 POSI.
STOP 1 POSI.
EJECT POSI.
GND
PLAY POSI.
SENSOR LED
SOLENOID (+)
SOLENOID (−)
GND (MOTOR)
SAFETY TAB SW
REEL PULSE (S)
REEL PULSE (T)
PHOTO SNS. +B
IC1502 ON2170 (S-REEL)
IC1501 ON2170 (T-REEL)
MECHANISM CONNECTION C.B.A. (VXA4463)
R6075 270
R6074 560
R6076 560
QR6003 MRN1403 (X7 Ⓗ ON)
QR6002 MRN1403 (S.VM Ⓗ ON)
QR6001 UN221K (INV)
22K
47K
10K
R6002 3300
R6003 2200
R6004 2700
R6014 10K
R6100 15K
R6101 1K
D6005 MA165
D6015 MA151WA
IC 6002 SI-3090CA (MOTOR REG)
Tr 1
CONSTANT VOLTAGE
OUTPUT ON / OFF CONTROL
PROTECTIVE
DRIVER
ERROR AMP
STANDARD VOLTAGE
Q6001 MSD602 (SENSOR LED DRIVE)
R6005 100
R6001 22
C6001 0.01
R6007 10K
QR6004 MRN2404 (SENSOR LED ON Ⓛ ON)
C6005 25V47
C6002 0.1
C2004 25V2200
D2005 ERA15-01
D2006 AK04
L2002 VLP0083
Q6002 2SD1994 (SOLENOID DRIVE)
R6017 200
R6008 220
R6009 130
D6002 MA165
Q6003 2SD1994 (SOLENOID DRIVE)
Q6004 2SD1994 (SOLENOID DRIVE)
Q6005 MSD601 (SOLENOID DRIVE)
R6011 22
C6053 0.22
(NV-F55EG) ONLY
D6004 MA165
R6010 5600
R6084 1500
D6003 MA165
C6003 6V47
R6020 4700
C6011 0.1
QR6007 MRN2404 (RESET Ⓛ ON)
C6004 6V330
R6016 5600
QR6005 UN2119 (SOLENOID ON Ⓛ ON)
QR6006 MRN2404 (FF/REW Ⓛ ON)
Q6012 2SB1321 (SAFETY TAB Ⓛ ON)
R6093 1500
D6013 MA165
SLOW TRACK SP
QR2001 MRN2404 (SP Ⓛ ON)
VR2011 100KB
D2011 MA165
VR2006 100KB
SLOW TRACK LP
D2012 MA165
IC 6004 PST591D (RESET)
POWER VOLTAGE DET
V1
V2
R2007 56
C2013 50V2.2
R2006 56
C2012 50V2.2
C2011 0.033
C2010 0.033
C2009 0.033
C2008 0.033
IC2002 XRA6435S
3 PHASE GENERATOR
P SIGNAL TORQUE COMPOSITE
TORQUE DIRECTION DETECTOR
SATURATION DETECTOR
3 DIFFERENTAL
TORQUE DIRECTION CHANGE OVER
RATIO COMPOSITE
HALL POWER
C2006 16V47
R2009 56
C2007 50V2.2
C2014 0.033
R2008 0.47 (1/2W)
R2015 1000
R2012 5100
C2015 0.033
R6064 51K
R2010 7500
R2011 6200
C2016 6V220
D2001 MA165
D2002 MA165
R2004 1M
R2001 3900
IC2001 μPC358G2
C2001 50V0.47
R2002 3900
C2002 50V0.47
R2003 1M
D2004 MA165
D2003 MA165
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

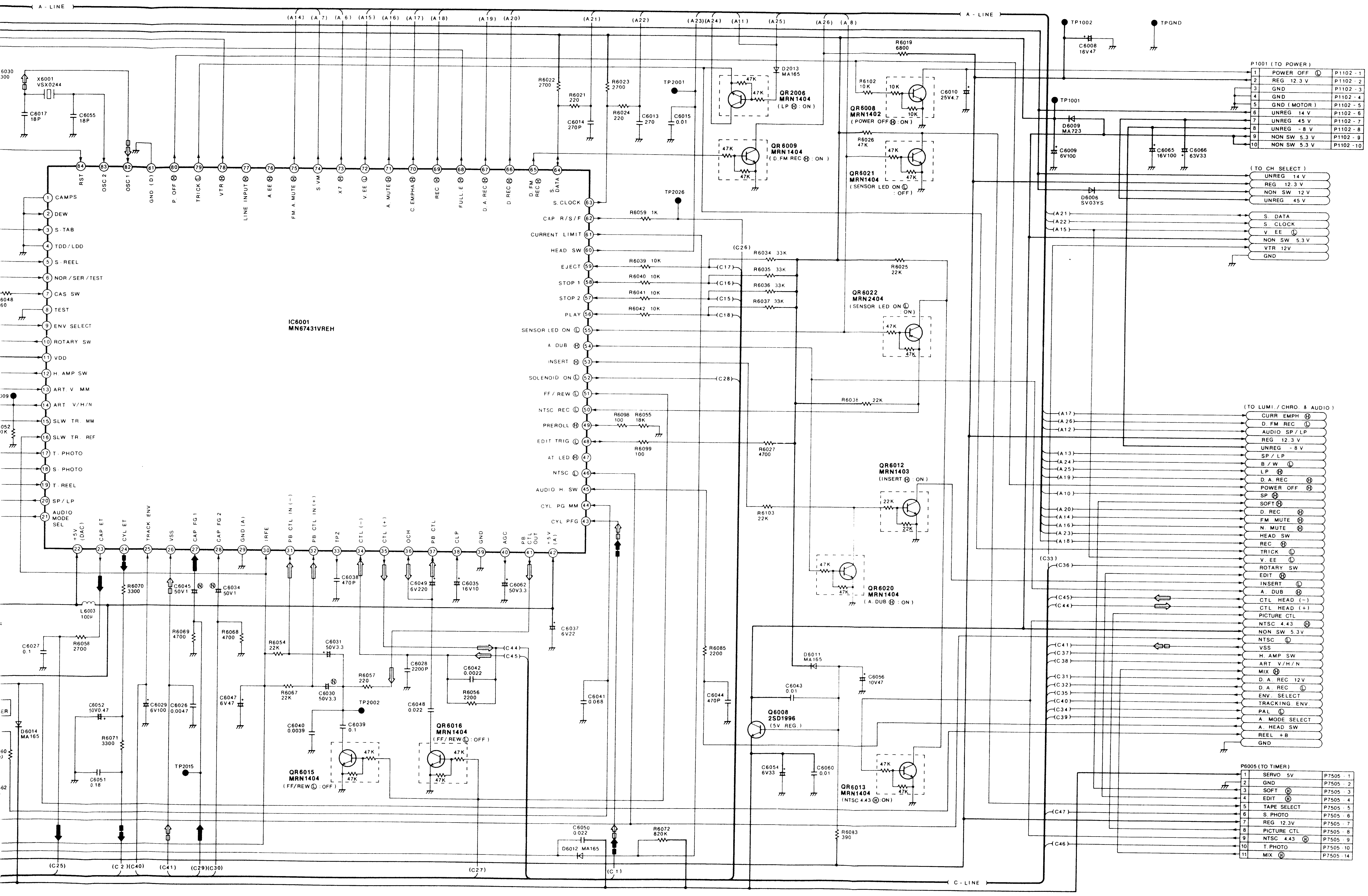
CAPSTAN SERVO PHASE LOOP

CYLINDER SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP


A - LINE
C - LINE
IC6001
MN67431VREH
IC6004
PST591D (RESET)
POWER VOLTAGE DET
OUTPUT CIRCUIT
V 1
V 2
QR2001
MRN2404
(SP Ⓛ : ON)
QR2002
MRN2404
(LP : ON)
QR2003
MRN1407
(LP Ⓗ : ON)
QR2004
DTC114TK
(PAL Ⓛ : ON)
QR2005
MRN1404
(PAL Ⓗ : ON)
QR2006
MRN1404
(LP Ⓗ : ON)
QR6009
MRN1404
(D.FM REC Ⓗ : ON)
QR6008
MRN1402
(POWER OFF Ⓗ)
QR6021
MRN1404
(SENSOR LED ON)
QR6022
MRN2404
(SENSOR LED ON)
Q6004
2SD1994
(SOLENOID DRIVE)
Q6005
MSD601
(SOLENOID DRIVE)
QR6005
UN2119
(SOLENOID ON Ⓛ : ON)
Q6012
2SB1321
(SAFETY TAB Ⓛ ON)
Q6011
MSB710
(VTR : ON)
Q6010
MSB710
(D.A REC Ⓛ : ON)
Q6009
2SB1378
(FULL ERASE HEAD DRIVE)
QR6019
MRN1404
(VTR Ⓗ : ON)
QR6018
MRN1404
(FULL ERASE Ⓗ : ON)
QR6007
MSB709
(NTSC Ⓛ : ON)
QR6015
MRN1404
(FF/REW Ⓛ : OFF)
QR6016
MRN1404
(FF/REW Ⓛ : OFF)
Q6008
2SD1996
(5V REG.)
QR6013
MRN1404
(NTSC 4.43 Ⓗ ON)
QR6020
MRN1404
(A DUB)
IC2001
μPC358G2
IC6003
μPC358G2
SLOW TRACK SP
SLOW TRACK LP
VR2011 100KB
VR2006 100KB
VR2001 50KB
PG SHIFTER
X6001 VSX0244
L6004 VLP0074
L6003 100μ
TPGND2
TPSERV
SERVICE
TP2009
TP2001
TP2026
TP2002
TP2015
RST
OSC 2
OSC 1
GND (D)
P. OFF Ⓗ
TRICK Ⓛ
VTR Ⓗ
LINE INPUT Ⓗ
A EE Ⓗ
FM A MUTE Ⓗ
S VM
X7 Ⓗ
V EE Ⓛ
A MUTE Ⓗ
C. EMPHA Ⓗ
REC Ⓗ
FULL E
D A REC Ⓗ
D REC Ⓗ
D FM REC Ⓗ
S DATA
CAMPS
DEW
S TAB
TDD/LDD
S REEL
NOR/SER/TEST
CAS SW
TEST
ENV SELECT
ROTARY SW
VDD
H AMP SW
ART V MM
ART V/H/N
SLW TR MM
SLW TR REF
T PHOTO
S PHOTO
T REEL
SP/LP
AUDIO MODE SEL
S.CLOCK
CAP R/S/F
CURRENT LIMIT
HEAD SW
EJECT
STOP 1
STOP 2
PLAY
SENSOR LED ON Ⓛ
A DUB Ⓗ
INSERT Ⓗ
SOLENOID ON Ⓛ
FF/REW Ⓛ
NTSC REC Ⓛ
PREROLL Ⓗ
EDIT TRIG Ⓛ
AT LED Ⓗ
NTSC Ⓛ
AUDIO H SW
CYL PG MM
CYL PFG
+5V (DAC)
CAP LT
TRACK ENV
VSS
CAP FG 1
CAP FG 2
GND (A)
IRFE
PB CTL IN (-)
PB CTL IN (+)
TPZ
CTL (-)
CTL (+)
OCH
PB CTL
CLP
GND
AGC
PB CTL OUT
+5V (A)
11
12
13
14
15
16
17
18
19
20
21
22

⇦ CYLINDER SERVO PHASE LOOP


A - LINE
C - LINE
IC6001
MN67431VREH
1 CAMPS
2 DEW
3 S.TAB
4 TDD/LDD
5 S.REEL
6 NOR/SER/TEST
7 CAS SW
8 TEST
9 ENV SELECT
10 ROTARY SW
11 VDD
12 H.AMP SW
13 ART. V. MM
14 ART V/H/N
15 SLW TR. MM
16 SLW TR. REF
17 T. PHOTO
18 S. PHOTO
19 T. REEL
20 SP/LP
21 AUDIO MODE SEL
22 +5V (DAC)
23 CAP ET
24 CYL ET
25 TRACK ENV
26 VSS
27 CAP FG 1
28 CAP FG 2
29 GND (A)
30 IRFE
31 PB CTL IN (−)
32 PB CTL IN (+)
33 TPZ
34 CTL (−)
35 CTL (+)
36 OCH
37 PB CTL
38 CLP
39 GND
40 AGC
41 PB CTL OUT
42 +5V (A)
43 CYL PFG
44 CYL PG MM
45 AUDIO H. SW
46 NTSC Ⓛ
47 AT LED Ⓗ
48 EDIT TRIG Ⓛ
49 PREROLL Ⓗ
50 NTSC REC Ⓛ
51 FF/REW Ⓛ
52 SOLENOID ON Ⓛ
53 INSERT Ⓗ
54 A. DUB Ⓗ
55 SENSOR LED ON Ⓛ
56 PLAY
57 STOP 2
58 STOP 1
59 EJECT
60 HEAD SW
61 CURRENT LIMIT
62 CAP R/S/F
63 S. CLOCK
64 S. DATA
65 D. FM REC Ⓗ
66 D. REC Ⓗ
67 D. A. REC Ⓗ
68 FULL E Ⓗ
69 REC Ⓗ
70 C EMPHA Ⓗ
71 A. MUTE Ⓗ
72 V. EE Ⓛ
73 X7
74 S. VM
75 FM A. MUTE Ⓗ
76 A. EE Ⓗ
77 LINE INPUT Ⓗ
78 VTR Ⓗ
79 TRICK Ⓛ
80 P. OFF Ⓗ
81 GND (D)
82 OSC 1
83 OSC 2
84 RST
X6001 VSX0244
C6017 18P
C6055 18P
QR6009 MRN1404 (D.FM REC Ⓗ : ON)
QR2006 MRN1404 (LP Ⓗ : ON)
D2013 MA165
QR6008 MRN1402 (POWER OFF Ⓗ : ON)
QR6021 MRN1404 (SENSOR LED ON Ⓛ : OFF)
QR6022 MRN2404 (SENSOR LED ON Ⓛ ON)
QR6012 MRN1403 (INSERT Ⓗ : ON)
QR6020 MRN1404 (A. DUB Ⓗ : ON)
QR6013 MRN1404 (NTSC 4.43 Ⓗ : ON)
QR6015 MRN1404 (FF/REW Ⓛ : OFF)
QR6016 MRN1404 (FF/REW Ⓛ : OFF)
Q6008 2SD1996 (5V REG.)
D6009 MA723
D6006 SV03YS
D6011 MA165
D6012 MA165
D6014 MA165
L6003 100μ
TP1002
TPGND
TP1001
TP2001
TP2026
TP2002
TP2015
P1001 (TO POWER)
1 POWER OFF Ⓛ P1102-1
2 REG 12.3 V P1102-2
3 GND P1102-3
4 GND P1102-4
5 GND (MOTOR) P1102-5
6 UNREG 14 V P1102-6
7 UNREG 45 V P1102-7
8 UNREG −8 V P1102-8
9 NON SW 5.3 V P1102-9
10 NON SW 5.3 V P1102-10
(TO CH SELECT)
UNREG 14 V
REG 12.3 V
NON SW 12 V
UNREG 45 V
S. DATA
S. CLOCK
V. EE Ⓛ
NON SW 5.3 V
VTR 12V
GND
(TO LUMI/CHRO. & AUDIO)
CURR EMPH Ⓗ
D. FM REC Ⓛ
AUDIO SP/LP
REG 12.3 V
UNREG −8 V
SP/LP
B/W Ⓛ
LP Ⓗ
D. A. REC Ⓗ
POWER OFF Ⓗ
SP Ⓗ
SOFT Ⓗ
D. REC Ⓗ
FM MUTE Ⓗ
N. MUTE Ⓗ
HEAD SW
REC Ⓗ
TRICK Ⓛ
V. EE Ⓛ
ROTARY SW
EDIT Ⓗ
INSERT Ⓛ
A. DUB Ⓗ
CTL HEAD (−)
CTL HEAD (+)
PICTURE CTL
NTSC 4.43 Ⓗ
NON SW 5.3V
NTSC Ⓛ
VSS
H. AMP SW
ART V/H/N
MIX Ⓗ
D. A. REC 12V
D. A. REC Ⓛ
ENV. SELECT
TRACKING ENV
PAL Ⓛ
A. MODE SELECT
A. HEAD SW
REEL +8
GND
P6005 (TO TIMER)
1 SERVO 5V P7505-1
2 GND P7505-2
3 SOFT Ⓗ P7505-3
4 EDIT Ⓗ P7505-4
5 TAPE SELECT P7505-5
6 S. PHOTO P7505-6
7 REG 12.3V P7505-7
8 PICTURE CTL P7505-8
9 NTSC 4.43 Ⓗ P7505-9
10 T. PHOTO P7505-10
11 MIX Ⓗ P7505-14
16
17
18
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25

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Next Page:
LUMINANCE/
CHROMINANCE
& AUDIO Section

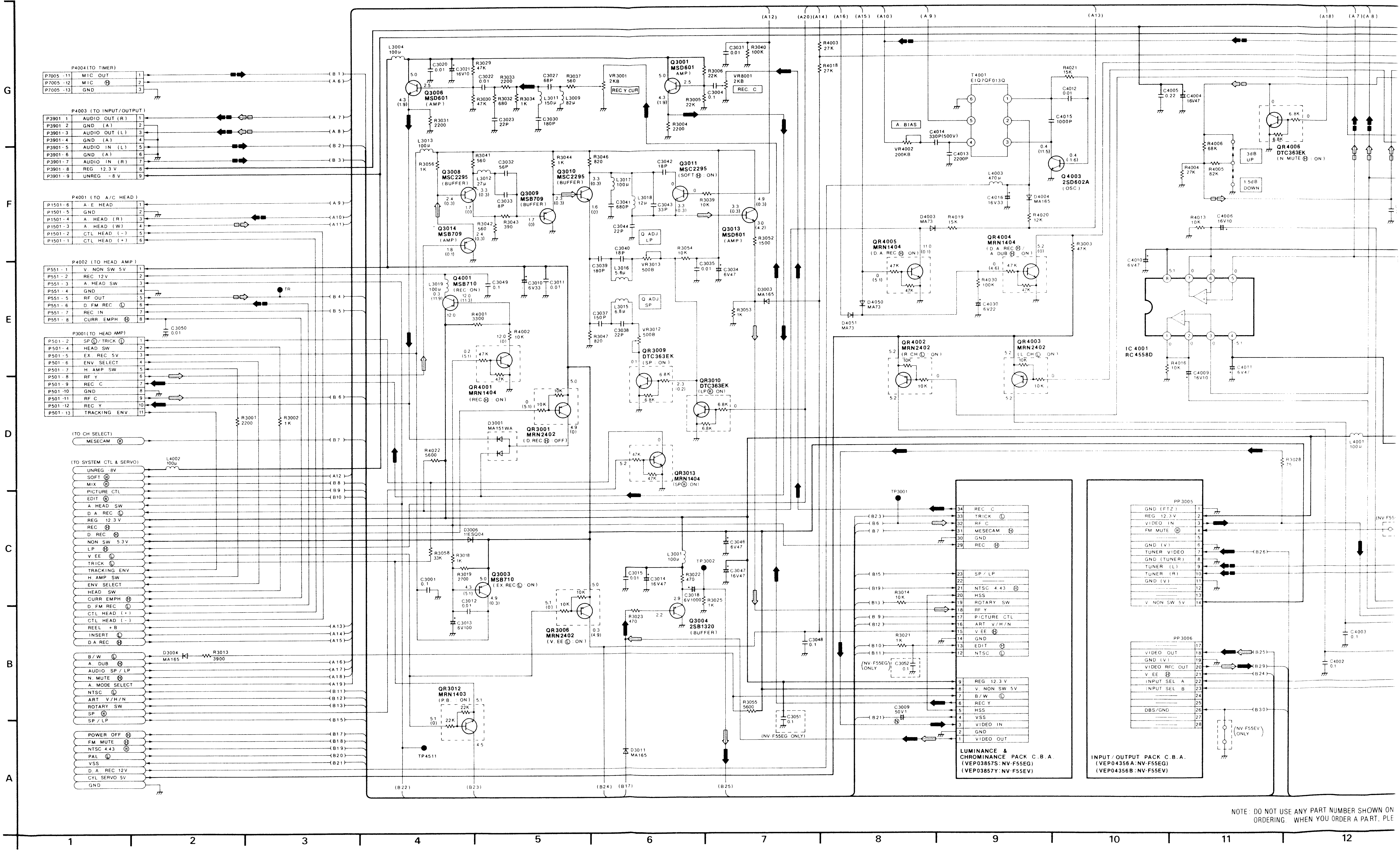
3-9. LUMINANCE/CHROMINANCE & AUDIO SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE

VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

AUDIO MAIN SIGNAL PATH IN R

AUDIO MAIN SIGNAL PATH IN P

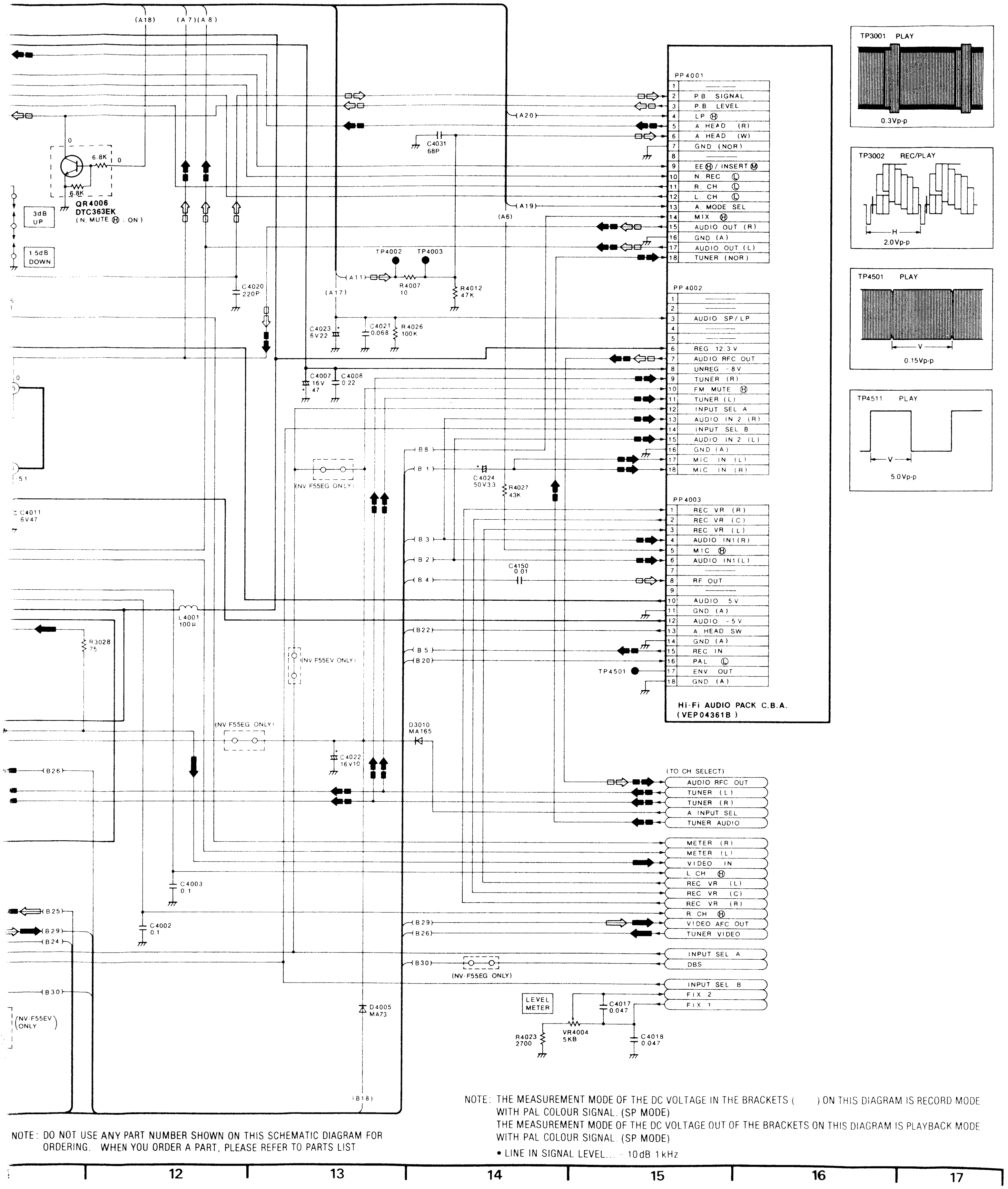


P4004 (TO TIMER)
P7005-11 MIC OUT 1
P7005-12 MIC H 2
P7005-13 GND 3
P4003 (TO INPUT/OUTPUT)
P3901-1 AUDIO OUT (R) 1
P3901-2 GND (A) 2
P3901-3 AUDIO OUT (L) 3
P3901-4 GND (A) 4
P3901-5 AUDIO IN (L) 5
P3901-6 GND (A) 6
P3901-7 AUDIO IN (R) 7
P3901-8 REG 12.3V 8
P3901-9 UNREG -8V 9
P4001 (TO A/C HEAD)
P1501-6 A.E HEAD 1
P1501-5 GND 2
P1501-4 A HEAD (R) 3
P1501-3 A HEAD (W) 4
P1501-2 CTL HEAD (-) 5
P1501-1 CTL HEAD (+) 6
P4002 (TO HEAD AMP)
P551-1 V. NON SW 5V 1
P551-2 REC 12V 2
P551-3 A HEAD SW 3
P551-4 GND 4
P551-5 RF OUT 5
P551-6 D.FM REC L 6
P551-7 REC IN 7
P551-8 CURR EMPH H 8
P3001 (TO HEAD AMP)
P501-2 SP L / TRICK L 1
P501-4 HEAD SW 2
P501-5 EX REC 5V 3
P501-6 ENV SELECT 4
P501-7 H AMP SW 5
P501-8 RF Y 6
P501-9 REC C 7
P501-10 GND 8
P501-11 RF C 9
P501-12 REC Y 10
P501-13 TRACKING ENV 11
(TO CH SELECT)
MESECAM H
(TO SYSTEM CTL & SERVO)
UNREG 8V
SOFT H
MIX H
PICTURE CTL
EDIT H
A HEAD SW
D.A REC L
REG 12.3V
REC
D REC H
NON SW 5.3V
LP H
V.EE L
TRICK L
TRACKING ENV
H AMP SW
ENV SELECT
HEAD SW
CURR EMPH H
D.FM REC L
CTL HEAD (+)
CTL HEAD (-)
REEL +B
INSERT L
D.A REC H
B/W L
A. DUB H
AUDIO SP/LP
N. MUTE H
A. MODE SELECT
NTSC L
ART V/H/N
ROTARY SW
SP H
SP/LP
POWER OFF H
FM MUTE H
NTSC 4.43 H
PAL L
VSS
D.A REC 12V
CYL SERVO 5V
GND
Q3006 MSD601 (AMP)
Q3001 MSD601 (AMP)
Q3008 MSC2295 (BUFFER)
Q3009 MSB709 (BUFFER)
Q3010 MSC2295 (BUFFER)
Q3011 MSC2295 (SOFT H : ON)
Q3013 MSD601 (AMP)
Q3014 MSB709 (AMP)
Q4001 MSB710 (REC ON)
QR4001 MRN1404 (REC H : ON)
QR3001 MRN2402 (D.REC H : OFF)
QR3009 DTC363EK (SP : ON)
QR3010 DTC363EK (LP H : ON)
QR3013 MRN1404 (SP H : ON)
Q3003 MSB710 (EX.REC L : ON)
QR3006 MRN2402 (V.EE L : ON)
Q3004 2SB1320 (BUFFER)
QR3012 MRN1403 (PB : ON)
VR3001 2KB REC Y CUR
VR8001 2KB REC C
VR3013 500B Q ADJ LP
VR3012 500B Q ADJ SP
D3001 MA151WA
D3006 11ESQ04
D3004 MA165
D3003 MA165
D3011 MA165
TP4511
TP3001
TP3002
T4001 E1Q7QF013Q
A BIAS
VR4002 200KB
Q4003 2SD602A (OSC)
QR4005 MRN1404 (D.A REC H : ON)
QR4004 MRN1404 (D.A REC H / A.DUB H : ON)
QR4002 MRN2402 (R CH L : ON)
QR4003 MRN2402 (L CH L : ON)
QR4006 DTC363EK (N MUTE H : ON)
IC4001 RC4558D
3dB UP
1.5dB DOWN
D4003 MA73
D4050 MA73
D4051 MA73
D4004 MA165
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857S: NV-F55EG) (VEP03857Y: NV-F55EV)
34 REC C
33 TRICK L
32 RF C
31 MESECAM H
30 GND
29 REC H
23 SP/LP
22
21 NTSC 4.43 H
20 HSS
19 ROTARY SW
18 RF Y
17 PICTURE CTL
16 ART V/H/N
15 V.EE H
14 GND
13 EDIT H
12 NTSC L
9 REG 12.3V
8 V. NON SW 5V
7 B/W L
6 REC Y
5 HSS
4 VSS
3 VIDEO IN
2 GND
1 VIDEO OUT
INPUT/OUTPUT PACK C.B.A. (VEP04356A: NV-F55EG) (VEP04356B: NV-F55EV)
PP3005
GND (FTZ) 1
REG 12.3V 2
VIDEO IN 3
FM MUTE H 4
5
GND (V) 6
TUNER VIDEO 7
GND (TUNER) 8
TUNER (L) 9
TUNER (R) 10
GND (V) 11
12
13
V. NON SW 5V 14
PP3006
17
VIDEO OUT 18
GND (V) 19
VIDEO RFC OUT 20
V. EE H 21
INPUT SEL A 22
INPUT SEL B 23
24
25
DBS/GND 26
27
28
(NV-F55EG ONLY)
(NV-F55EV ONLY)
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON
ORDERING. WHEN YOU ORDER A PART, PLE

IN SIGNAL PATH IN REC MODE

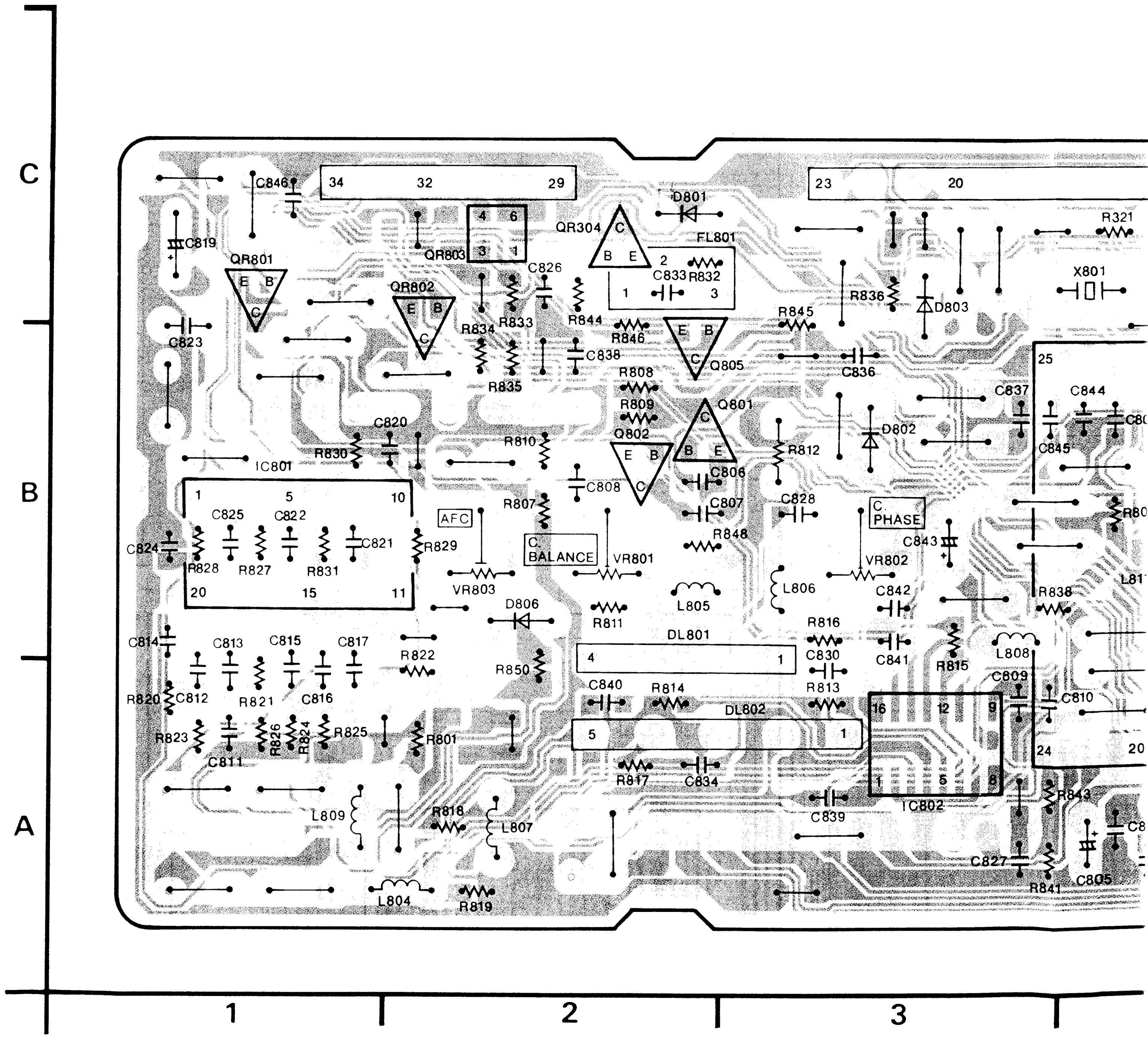
IN SIGNAL PATH IN PLAYBACK MODE


(A18)
(A7)(A8)
(A20)
(A19)
(A6)
(A11)
(A17)
QR4006
DTC363EK
(N. MUTE Ⓗ : ON)
6.8K
3dB UP
1.5dB DOWN
TP4002
TP4003
R4007 10
R4012 47K
C4031 68P
C4020 220P
C4023 6V22
C4021 0.068
R4026 100K
C4007 16V 47
C4008 0.22
C4011 6V47
C4024 50V3.3
R4027 43K
C4150 0.01
L4001 100μ
R3028 75
(NV-F55EG ONLY)
(NV-F55EV ONLY)
C4022 16V10
D3010 MA165
C4003 0.1
C4002 0.1
D4005 MA73
(NV-F55EV ONLY)
LEVEL METER
R4023 2700
VR4004 5KB
C4017 0.047
C4018 0.047
(B8)
(B1)
(B3)
(B2)
(B4)
(B22)
(B5)
(B20)
(B26)
(B25)
(B29)
(B24)
(B30)
(B18)
TP4501
PP4001
1 ————
2 P.B. SIGNAL
3 P.B. LEVEL
4 LP Ⓗ
5 A. HEAD (R)
6 A. HEAD (W)
7 GND (NOR)
8 ————
9 EE Ⓗ / INSERT Ⓜ
10 N. REC Ⓛ
11 R. CH Ⓛ
12 L. CH Ⓛ
13 A. MODE SEL
14 MIX Ⓗ
15 AUDIO OUT (R)
16 GND (A)
17 AUDIO OUT (L)
18 TUNER (NOR)
PP4002
1 ————
2 ————
3 AUDIO SP/LP
4 ————
5 ————
6 REG 12.3V
7 AUDIO RFC OUT
8 UNREG -8V
9 TUNER (R)
10 FM MUTE Ⓗ
11 TUNER (L)
12 INPUT SEL A
13 AUDIO IN 2 (R)
14 INPUT SEL B
15 AUDIO IN 2 (L)
16 GND (A)
17 MIC IN (L)
18 MIC IN (R)
PP4003
1 REC VR (R)
2 REC VR (C)
3 REC VR (L)
4 AUDIO IN1 (R)
5 MIC Ⓗ
6 AUDIO IN1 (L)
7 ————
8 RF OUT
9 ————
10 AUDIO 5V
11 GND (A)
12 AUDIO -5V
13 A. HEAD SW
14 GND (A)
15 REC IN
16 PAL Ⓛ
17 ENV. OUT
18 GND (A)
Hi-Fi AUDIO PACK C.B.A.
(VEP04361B)
(TO CH SELECT)
AUDIO RFC OUT
TUNER (L)
TUNER (R)
A. INPUT SEL
TUNER AUDIO
METER (R)
METER (L)
VIDEO IN
L CH Ⓗ
REC VR (L)
REC VR (C)
REC VR (R)
R CH Ⓗ
VIDEO AFC OUT
TUNER VIDEO
INPUT SEL A
DBS
INPUT SEL B
FIX 2
FIX 1
TP3001 PLAY
0.3Vp-p
TP3002 REC/PLAY
H
2.0Vp-p
TP4501 PLAY
V
0.15Vp-p
TP4511 PLAY
V
5.0Vp-p
12
13
14
15
16
17

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS (　　) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)
• LINE IN SIGNAL LEVEL ····· -10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST

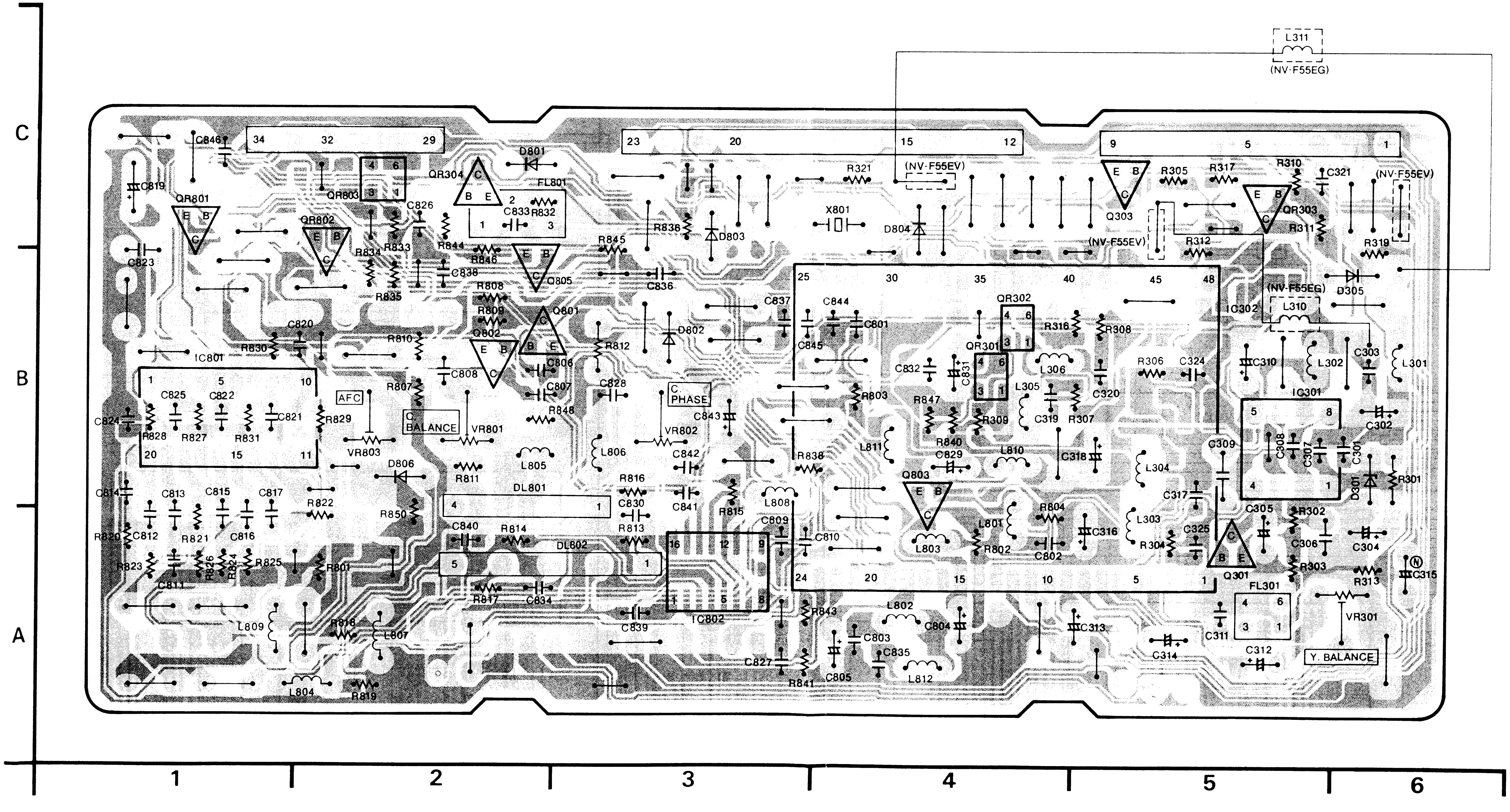
3-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857S: NV-F55EG) (VE


C
B
A
1
2
3
34
32
29
23
20
C846
C819
QR801
QR802
QR803
QR304
D801
FL801
C833
R832
R321
X801
C823
R834
R833
C826
R844
R846
R845
R836
D803
C838
R835
R808
R809
Q805
Q801
Q802
C836
C837
C844
C845
D802
R812
C820
R830
R810
C808
C806
C807
C828
IC801
AFC
R807
C PHASE
C843
C825
C822
C821
C824
R829
C BALANCE
VR801
R848
R828
R827
R831
VR803
L805
L806
VR802
C842
D806
R811
R816
R838
L808
C814
C813
C815
C817
R822
DL801
R850
C830
C841
R815
C809
C840
R814
R813
C810
R820
C812
R821
C816
DL802
R823
R826
R824
R825
R801
C811
R817
C834
IC802
L809
R818
L807
C839
R843
C827
R841
C805
L804
R819
16
12
9
1
5
8
24
25
4
10
11
15

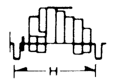
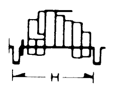
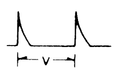
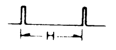
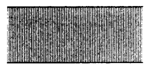
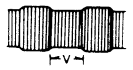
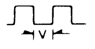
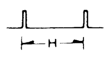
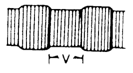
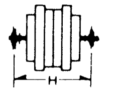
3-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857S: NV-F55EG) (VEP03857Y: NV-F55EV)

LUMINANCE & CHROMINANCE PACK C.B.A.			
Transistor		**Integrated Circuit**	
Q301	A-5	IC301	B-5
Q303	C-5	IC302	B-5
Q801	B-2	IC801	B-1
Q802	B-2	IC802	A-3
Q803	B-4	**Adjustment**	
Q805	B-2	VR301	A-6
Transistor & Resistor		VR801	B-2
QR301	B-4	VR802	B-3
QR302	B-4	VR803	B-2
QR303	C-5		
QR304	C-2		
QR801	C-1		
QR802	C-2		
QR803	C-2		

ADDRESS INFORMATION


L311
(NV-F55EG)
C
B
A
1
2
3
4
5
6
34 32 29
23 20 15 12
9 5 1
(NV-F55EV)
C846
C819
QR801
QR802
QR803
QR304
D801
FL801
C826
C833 R832
R844
R846
C838
R845
R833
R834
R835
C823
R808
R809
Q805
Q802
Q801
C820
R830
IC801
R810
C808
C806
C807
R807
R812
C828
R848
AFC
C BALANCE
VR801
VR803
C PHASE
VR802
C843
C825 C822 C821
C824
R828 R827 R831
R829
D806
R811
L805
L806
C842
C841
R816
C830
DL801
R813
R822
R850
C814
C813 C815 C817
R820 C812
R821 C816
R823 R826 R824 R825
R801
C811
C840
R814
DL802
R817 C834
C839
IC802
L809
R818
L807
L804
R819
C836
R836
D803
D802
X801
R321
D804
C837
C844
C845
C801
QR302
QR301
R316
R308
C832
C831
L306
L305
C320
C319 R307
R803
R847
R809
R840
C829
L810
C318
R838
L811
L808
C809
C810
Q803
R804
L801
C316
L803
R802
C802
R843
L802
C804
C313
C803
C835
C827
R841
C805
L812
Q303
R305
R317
R310
C321
QR303
R311
R312
R319
D305
L310
(NV-F55EG)
IC302
25 30 35 40 45 48
24 20 15 10 5 1
R306 C324
C310
L302
C303
L301
IC301
C302
C308
C307
C301
C309
L304
D301
R301
C317
L303
R304
C325
C305
R302
C306
C304
Q301
FL301
R303
R313
C315
Ⓝ
C311
C314
C312
VR301
Y. BALANCE

LUMINANCE & CHROMINANCE PACK PIN

PIN NO.	WAVEFORM
1	 2.2Vp-p (REC/P.B)
3	 1.0Vp-p (REC/P.B)
4	 2.0Vp-p (REC/P.B)
5	 4.8Vp-p (REC/P.B)
6	 0.8Vp-p (REC)
18	 0.36Vp-p (P.B)
19	 5.2Vp-p (REC/P.B)
20	 4.8Vp-p (REC/P.B)
32	 0.3Vp-p (P.B)
34	 0.64Vp-p (REC)

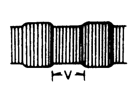
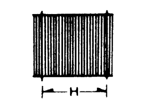
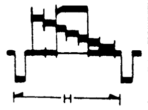
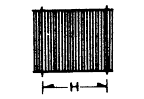
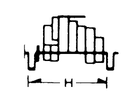
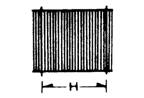
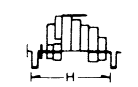
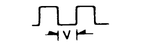
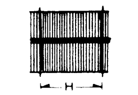
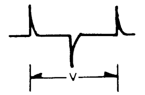
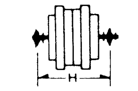
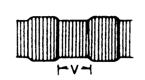
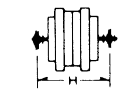
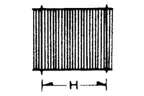
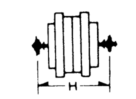
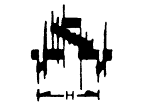
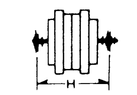
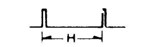
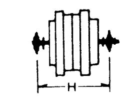
MODE
MODE

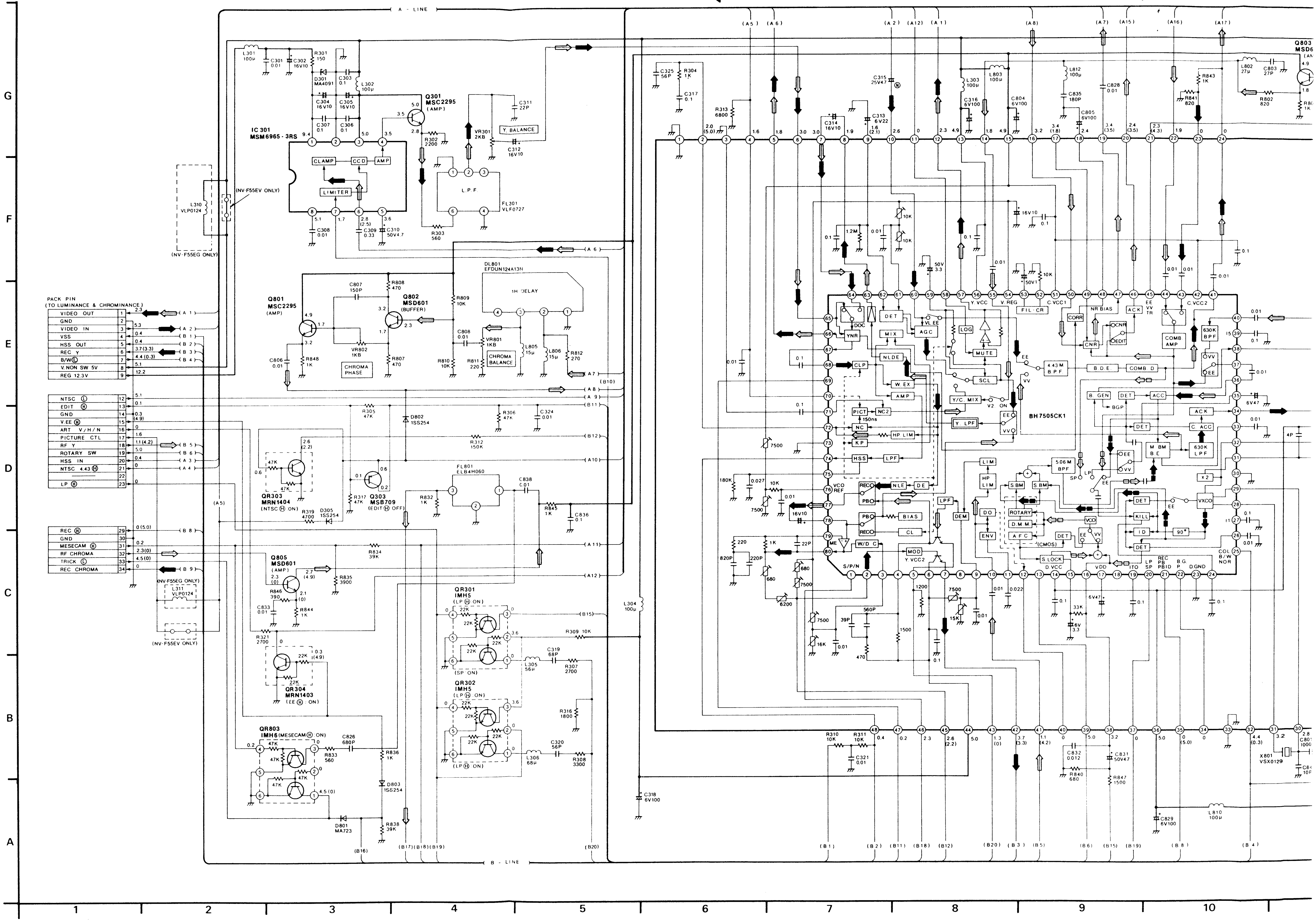
3-11. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHASE
5.06MHz PHASE

IC302 (VEFH14D)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
2	 0.3Vp-p (P.B)	28 29	 0.5Vp-p (REC/P.B)
5 6 7 8	 0.5Vp-p (REC/P.B)	30	 0.2Vp-p (REC/P.B)
10	 1.0Vp-p (REC/P.B)	31	 0.24Vp-p (REC/P.B)
12	 2.2Vp-p (REC/P.B)	39	 5.0Vp-p (REC/P.B)
17	 0.24Vp-p (REC)	40	 0.5Vp-p (REC/P.B)
22	 0.14Vp-p (REC/P.B)	41	 0.25Vp-p (P.B)
23	 0.4Vp-p (REC)	42	 0.8Vp-p (REC)
24	 0.9Vp-p (REC/P.B)	43	 0.36Vp-p (P.B)
26	 0.5Vp-p (REC/P.B)	48	 4.6Vp-p (REC/P.B)
27	 0.7Vp-p (REC)		

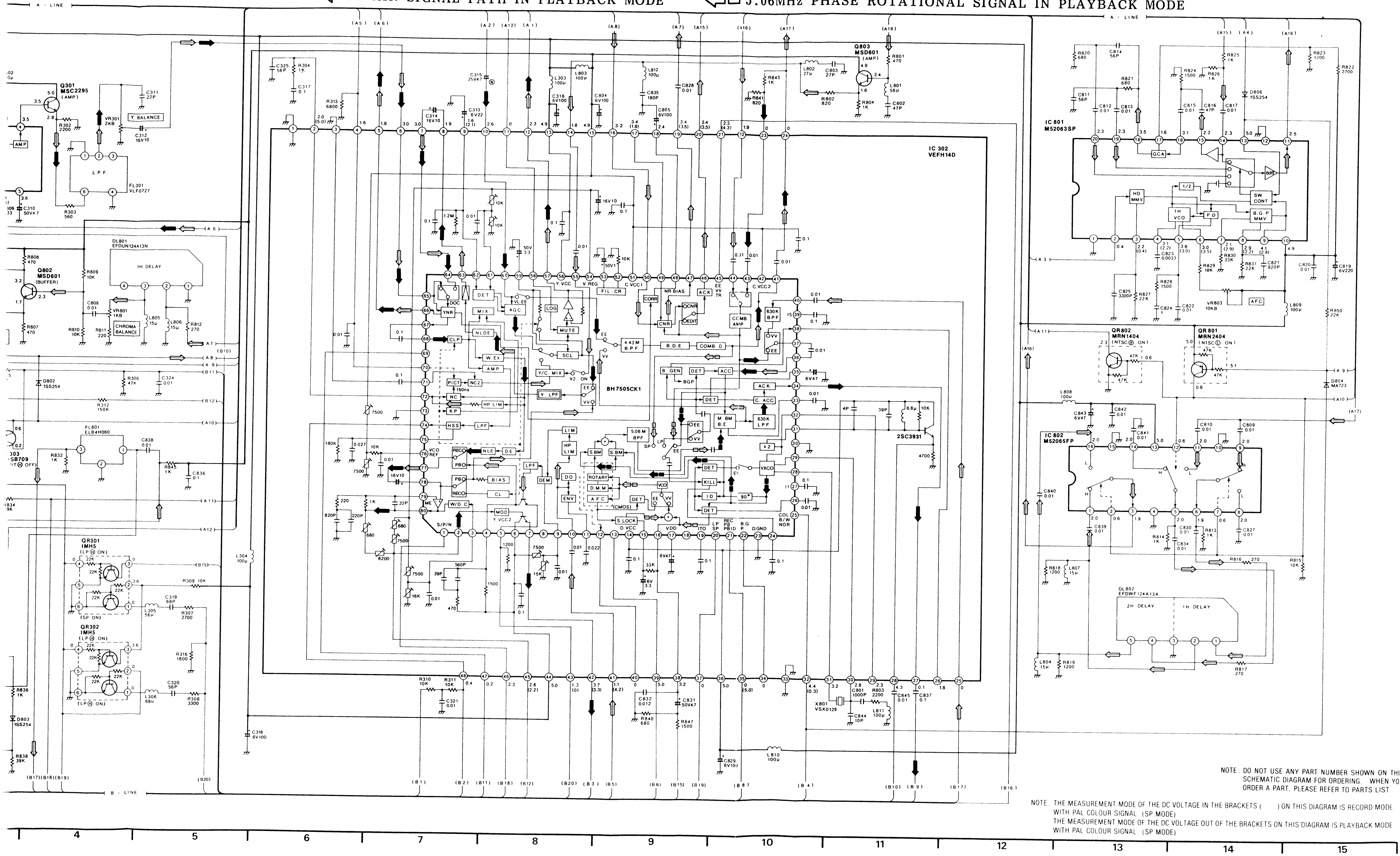

A - LINE
B - LINE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
IC 301
MSM6965-3RS
CLAMP
CCD
AMP
LIMITER
Q301
MSC2295
(AMP)
L301 100μ
C301 0.01
C302 16V10
R301 150
D301 MA4091
C303 0.1
L302 100μ
C304 16V10
C305 16V10
C307 0.1
C306 0.1
C308 0.01
C309 0.33
C310 50V4.7
R302 2200
VR301 2KB
C311 22P
Y. BALANCE
C312 16V10
L.P.F
FL301 VLF0727
R303 560
L310 VLP0124
(NV-F55EV ONLY)
(NV-F55EG ONLY)
Q801
MSC2295
(AMP)
C807 150P
R808 470
Q802
MSD601
(BUFFER)
VR802 1KB
CHROMA PHASE
R848 1K
R807 470
C806 0.01
DL801
EFDUN124A13N
1H DELAY
R809 10K
C808 0.01
VR801 1KB
CHROMA BALANCE
L805 15μ
L806 15μ
R812 270
R810 10K
R811 220
PACK PIN
(TO LUMINANCE & CHROMINANCE)
VIDEO OUT 1
GND 2
VIDEO IN 3
VSS 4
HSS OUT 5
REC Y 6
B/W 7
V.NON SW 5V 8
REG 12.3V 9
NTSC 12
EDIT 13
GND 14
V.EE 15
ART V/H/N 16
PICTURE CTL 17
RF Y 18
ROTARY SW 19
HSS IN 20
NTSC 4.43 21
22
LP 23
REC 29
GND 30
MESECAM 31
RF CHROMA 32
TRICK 33
REC CHROMA 34
R305 47K
D802 1SS254
R306 47K
C324 0.01
R312 150K
QR303
MRN1404
(NTSC ON)
Q303
MSB709
(EDIT OFF)
R317 47K
R319 4700
D305 1SS254
FL801
ELB4H060
R832 1K
C838 0.01
R845 1K
C836 0.1
Q805
MSD601
(AMP)
R834 39K
R835 3900
R846 390
C833 0.01
R844 1K
R321 2700
QR304
MRN1403
(EE ON)
L311 VLP0124
QR301
IMH5
(LP ON)
(SP ON)
QR302
IMH5
(LP ON)
R309 10K
L305 56μ
C319 68P
R307 2700
R316 1800
L306 68μ
C320 56P
R308 3300
L304 100μ
C318 6V100
QR803
IMH6 (MESECAM ON)
C826 680P
R833 560
R836 1K
D803 1SS254
D801 MA723
R838 39K
BH7505CK1
Y VCC
V REG
FIL-CR
C VCC1
NR BIAS
ACK
C VCC2
DOC
YNR
DET
MIX
AGC
LOG
MUTE
CLP
NLDE
W.EX
AMP
SCL
Y/C MIX
Y LPF
EE
VV
PICT
NC2
NC
KP
HP LIM
HSS
LPF
RECO
NLE
DE
PBO
BIAS
CL
W/D C
MOD
Y VCC2
DEM
DO
ENV
HP LIM
LIM
S.BM
ROTARY
D.M.M
AFC
VCO
S.LOCK
D VCC
VDD
CORR
CNR
EDIT
COMB AMP
630K BPF
4.43M B.P.F
B.D.E
COMB D
B.GEN
BGP
DET
ACC
ACK
C ACC
M BM
B.E
630K LPF
506M BPF
VXCO
KILL
ID
90°
x2
S/P/N
LP SP
REC PB ID
B.G P
D.GND
COL B/W NOR
X801 VSX0129
L802 27μ
C803 27P
Q803
R843 1K
R841 820
R802 820
C325 56P
R304 1K
C317 0.1
R313 6800
C315 25V47
C313 6V22
C314 16V10
L303 100μ
L803 100μ
C316 6V100
C804 6V100
L812 100μ
C828 0.01
C835 180P
C805 6V100
R310 10K
R311 10K
C321 0.01
C832 0.012
R840 680
C831 50V47
R847 1500
C829 6V100
L810 100μ
7500
180K
0.027
10K
16V10
220
820P
220P
1K
22P
680
6200
7500
15K
1200
560P
1500
39P
470
16K
33K
6V 3.3
(A1)
(A2)
(A3)
(A4)
(A5)
(A6)
(A7)
(A8)
(A9)
(A10)
(A11)
(A12)
(A15)
(A16)
(A17)
(B1)
(B2)
(B3)
(B4)
(B5)
(B6)
(B8)
(B9)
(B10)
(B11)
(B12)
(B15)
(B16)
(B17)
(B18)
(B19)
(B20)

E PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE

5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

LUMINANCE & CHROMINANCE Section

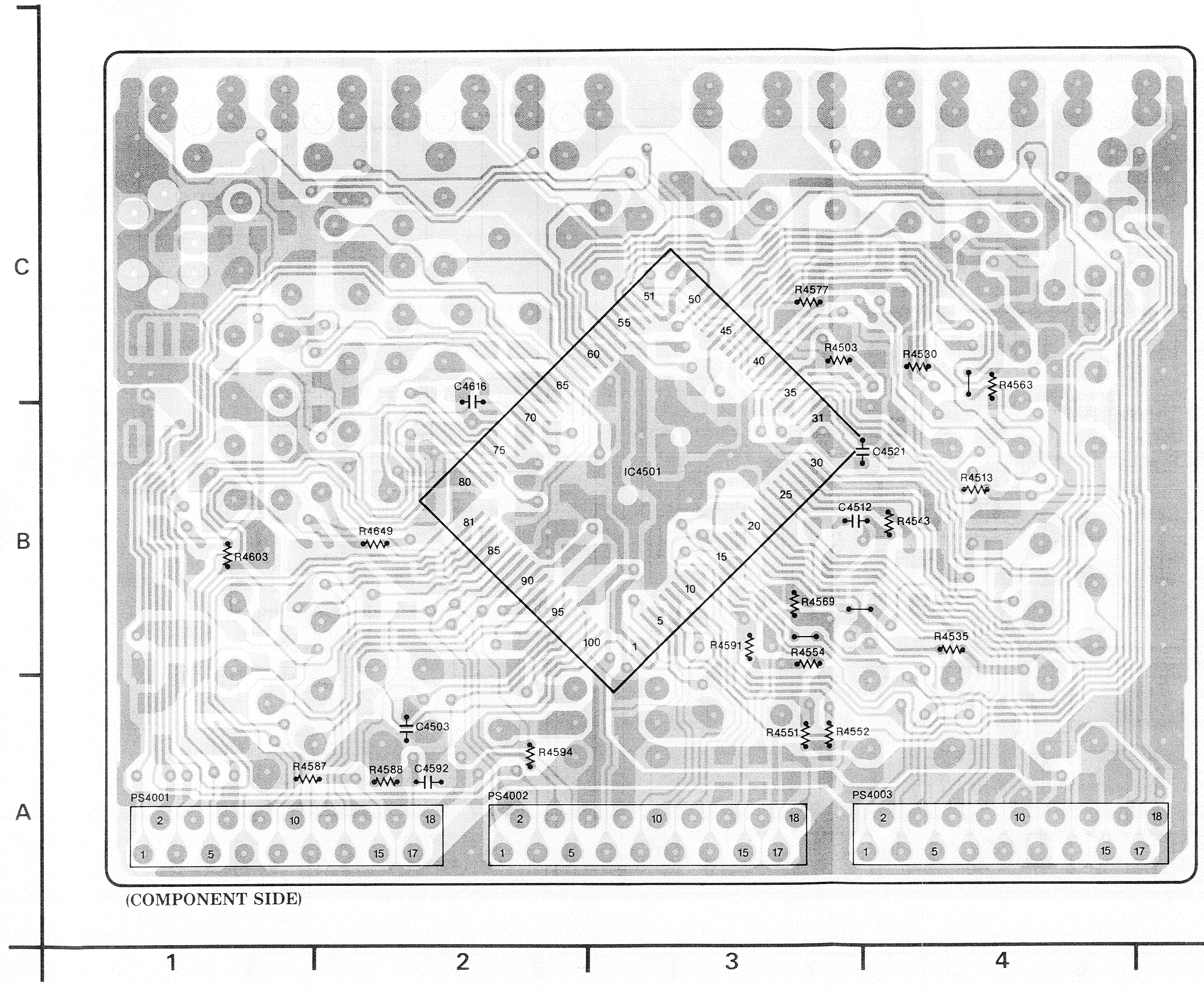

A - LINE
B - LINE
IC 302
VEFH14D
BH7505CK1
IC 801
M52063SP
IC 802
M52065FP
Q301
MSC2295
(AMP)
Q802
MSD601
(BUFFER)
Q803
MSD601
(AMP)
QR301
IMH5
QR302
IMH5
QR802
MRN1404
QR801
MRN2404
2SC3931
DL801
EFDUN124A13N
1H DELAY
DL802
EFDWF124A13A
2H DELAY
1H DELAY
FL301
VLF0727
FL801
ELB4H060
X801
VSX0129
VR301
2KB
Y. BALANCE
VR801
1KB
CHROMA
BALANCE
VR803
10KB
L.P.F.
4.43M
B.P.F
5.06M
BPF
630K
BPF
630K
LPF
COMB. D
CCMB
AMP
AFC
GCA
1/2
HD
MMV
1H
VCO
P.D
B.G.P
MMV
SW
CONT
4
5
6
7
8
9
10
11
12
13
14
15

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST

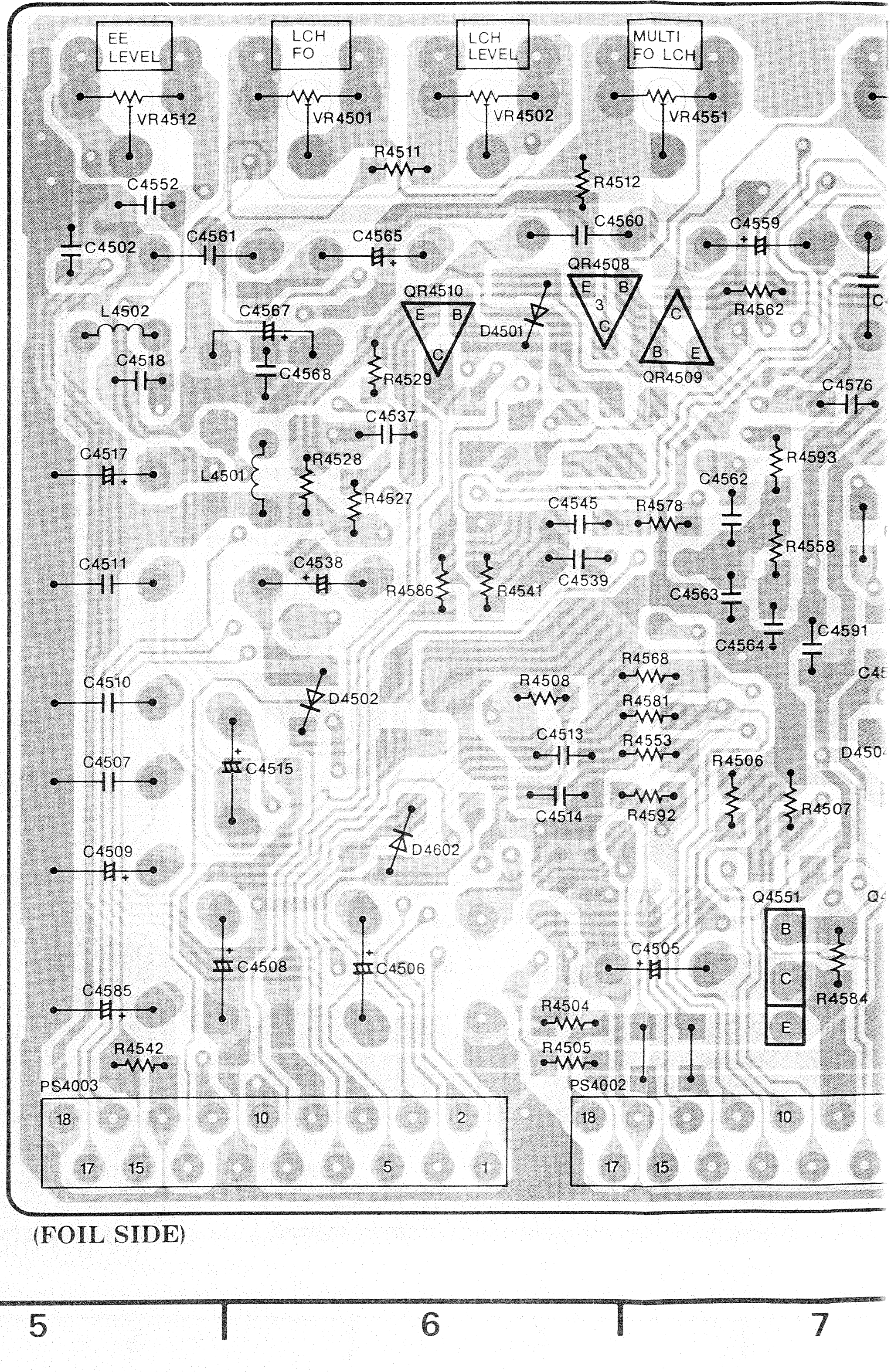
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL (SP MODE)

Next Page:
Hi-Fi AUDIO Section

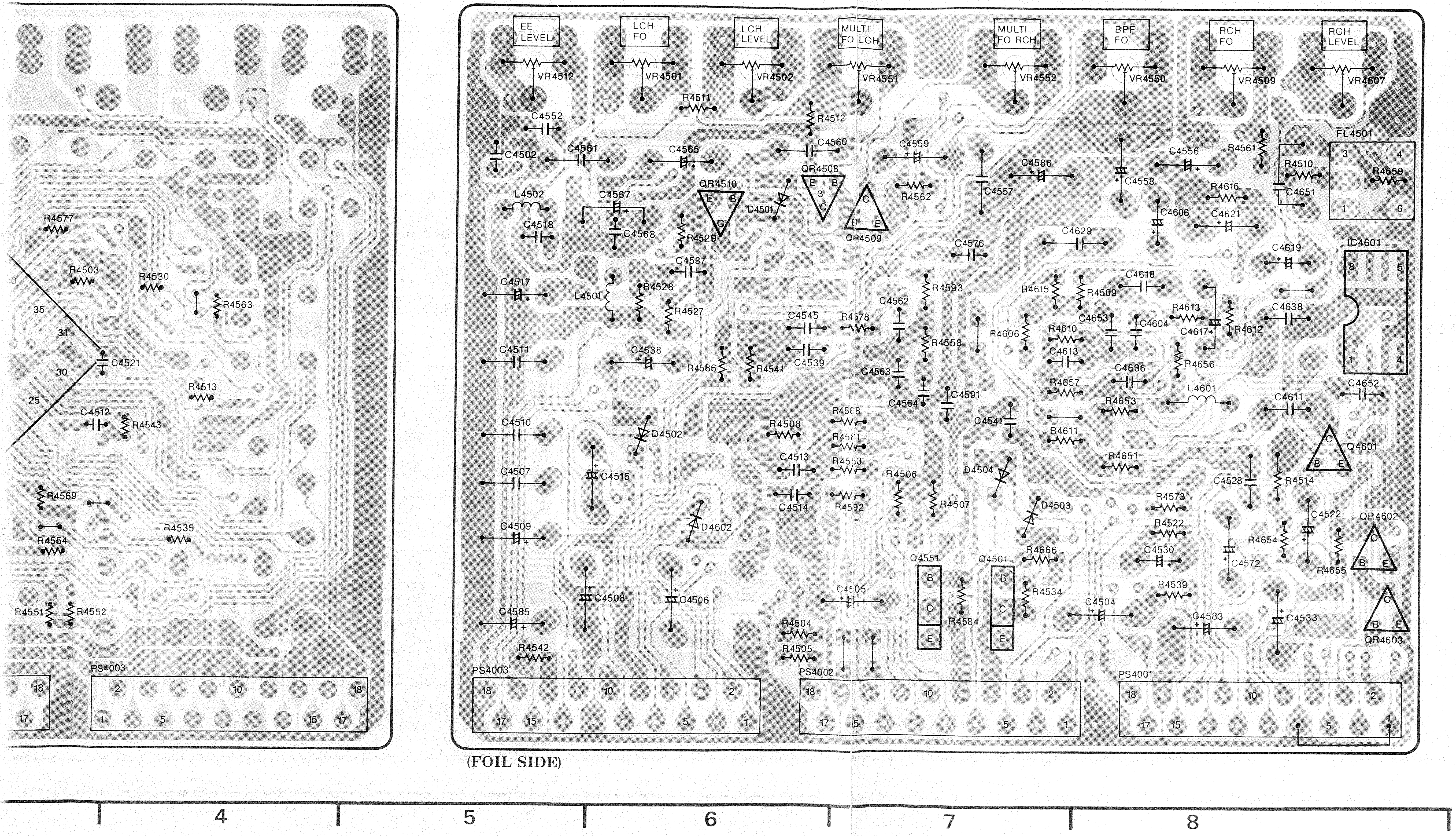
3-12. Hi-Fi AUDIO PACK C.B.A. (VEP04361B)


C
B
A
1
2
3
4
IC4501
1
5
10
15
20
25
30
31
35
40
45
50
51
55
60
65
70
75
80
81
85
90
95
100
R4577
R4503
R4530
R4563
C4616
C4521
R4513
C4512
R4543
R4649
R4603
R4569
R4535
R4554
R4591
C4503
R4594
R4551
R4552
R4587
R4588
C4592
PS4001
PS4002
PS4003

(COMPONENT SIDE)


EE LEVEL
LCH FO
LCH LEVEL
MULTI FO LCH
VR4512
VR4501
VR4502
VR4551
R4511
R4512
C4552
C4502
C4561
C4565
C4560
C4559
QR4508
QR4510
D4501
R4562
L4502
C4567
C4518
C4568
R4529
QR4509
C4576
C4537
C4517
R4528
L4501
R4527
R4593
C4562
C4545
R4578
C4511
C4538
R4586
R4541
C4539
R4558
C4563
C4564
C4591
C4510
R4568
R4508
R4581
D4502
C4513
R4553
C4507
C4515
R4506
C4514
R4592
R4507
C4509
D4602
Q4551
C4505
C4508
C4506
R4584
C4585
R4504
R4542
R4505
PS4003
PS4002
5
6
7

(FOIL SIDE)


EE LEVEL
VR4512
LCH FO
VR4501
LCH LEVEL
VR4502
MULTI FO LCH
VR4551
MULTI FO RCH
VR4552
BPF FO
VR4550
RCH FO
VR4509
RCH LEVEL
VR4507
R4511
R4512
C4552
C4502
C4561
C4565
C4560
C4559
C4586
C4556
R4561
FL4501
R4510
R4659
C4651
QR4510
QR4508
QR4509
D4501
L4502
C4567
C4568
C4518
R4529
R4562
C4557
C4558
C4606
R4616
C4621
C4629
C4576
C4537
C4619
IC4601
C4517
L4501
R4528
R4527
R4593
C4562
R4615
R4509
C4618
R4613
R4612
C4638
C4545
R4578
C4653
C4604
C4617
R4606
R4610
C4613
C4511
C4538
R4586
R4541
C4539
R4558
C4563
C4564
C4591
R4656
C4636
R4657
L4601
C4652
C4611
R4653
C4541
R4611
C4510
D4502
R4508
R4588
R4581
R4583
C4513
C4514
R4532
R4506
R4507
D4504
D4503
R4651
Q4601
C4528
R4514
C4507
C4515
R4573
R4522
C4522
QR4602
C4509
D4602
R4666
C4530
R4654
C4572
R4655
Q4551
Q4501
R4584
R4534
R4539
C4585
C4508
C4506
C4505
C4504
C4583
C4533
QR4603
R4504
R4505
R4542
PS4003
PS4002
PS4001
R4577
R4503
R4530
R4563
C4521
R4513
C4512
R4543
R4569
R4554
R4535
R4551
R4552
4
5
6
7
8

(FOIL SIDE)

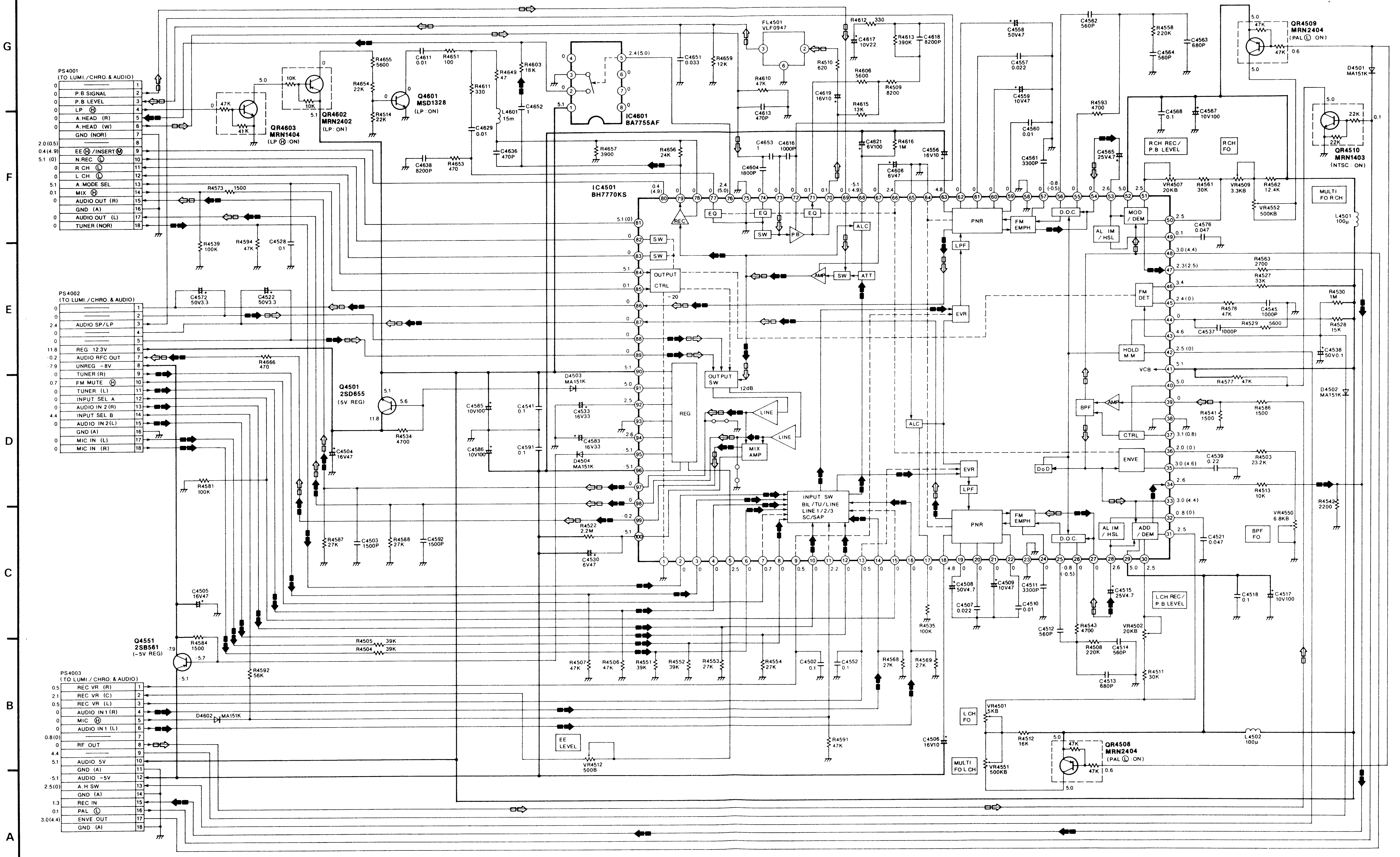
Hi-Fi AUDIO PACK C.B.A.	
Transistor	
Q4501	A-7
Q4551	A-7
Q4601	B-8
Transistor & Resistor	
QR4508	C-6
QR4509	C-7
QR4510	C-6
QR4602	B-8
QR4603	A-8
Integrated Circuit	
IC4501	B-3
IC4601	C-8
Adjustment	
VR4501	C-6
VR4502	C-6
VR4507	C-8
VR4509	C-8
VR4512	C-5
VR4550	C-8
VR4551	C-7
VR4552	C-7
Connector	
PS4001	A-1
PS4001	A-8
PS4002	A-2
PS4002	A-6
PS4003	A-4
PS4003	A-5

ADDRESS INFORMATION

3-13. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM

◀■ MAIN SIGNAL PATH IN REC MODE

⇦□ MAIN SIGNAL PATH IN PLAYBACK MODE



PS4001 (TO LUMI./CHRO. & AUDIO)
P.B SIGNAL
P.B LEVEL
LP Ⓗ
A.HEAD (R)
A.HEAD (W)
GND (NOR)
EE Ⓗ /INSERT Ⓜ
N.REC Ⓛ
R CH Ⓛ
L CH Ⓛ
A.MODE SEL
MIX Ⓗ
AUDIO OUT (R)
GND (A)
AUDIO OUT (L)
TUNER (NOR)
PS4002 (TO LUMI./CHRO. & AUDIO)
AUDIO SP/LP
REG 12.3V
AUDIO RFC OUT
UNREG -8V
TUNER (R)
FM MUTE Ⓗ
TUNER (L)
INPUT SEL A
AUDIO IN 2 (R)
INPUT SEL B
AUDIO IN 2(L)
GND (A)
MIC IN (L)
MIC IN (R)
PS4003 (TO LUMI./CHRO. & AUDIO)
REC VR (R)
REC VR (C)
REC VR (L)
AUDIO IN 1 (R)
MIC Ⓗ
AUDIO IN 1 (L)
RF OUT
AUDIO 5V
GND (A)
AUDIO -5V
A.H SW
GND (A)
REC IN
PAL Ⓛ
ENVE. OUT
GND (A)
QR4603 MRN1404 (LP Ⓗ :ON)
QR4602 MRN2402 (LP : ON)
Q4601 MSD1328 (LP : ON)
IC4601 BA7755AF
FL4501 VLF0947
IC4501 BH7770KS
Q4501 2SD655 (5V REG)
Q4551 2SB561 (-5V REG)
QR4509 MRN2404 (PAL Ⓛ :ON)
QR4510 MRN1403 (NTSC : ON)
QR4508 MRN2404 (PAL Ⓛ :ON)
D4501 MA151K
D4502 MA151K
D4503 MA151K
D4504 MA151K
D4602 MA151K
R CH REC/ P.B LEVEL
R CH FO
MULTI FO R CH
L CH REC/ P.B LEVEL
L CH FO
MULTI FO L CH
BPF FO
EE LEVEL
VR4512 500B
VR4507 20KB
VR4509 3.3KB
VR4552 500KB
VR4550 6.8KB
VR4502 20KB
VR4501 5KB
VR4551 500KB
L4501 100μ
L4502 100μ
L4601 15m
PNR
FM EMPH
D.O.C.
MOD /DEM
AL IM /HSL
ADD /DEM
LPF
EVR
FM DET
HOLD M.M
VCB
BPF
AMP
CTRL
ENVE
DoD
ALC
INPUT SW BIL/TU/LINE LINE 1/2/3 SC/SAP
REG
LINE
MIX AMP
OUTPUT SW
OUTPUT CTRL
REC
EQ
SW
PB
ATT
12dB
-20

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

• LINE IN SIGNAL LEVEL.... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

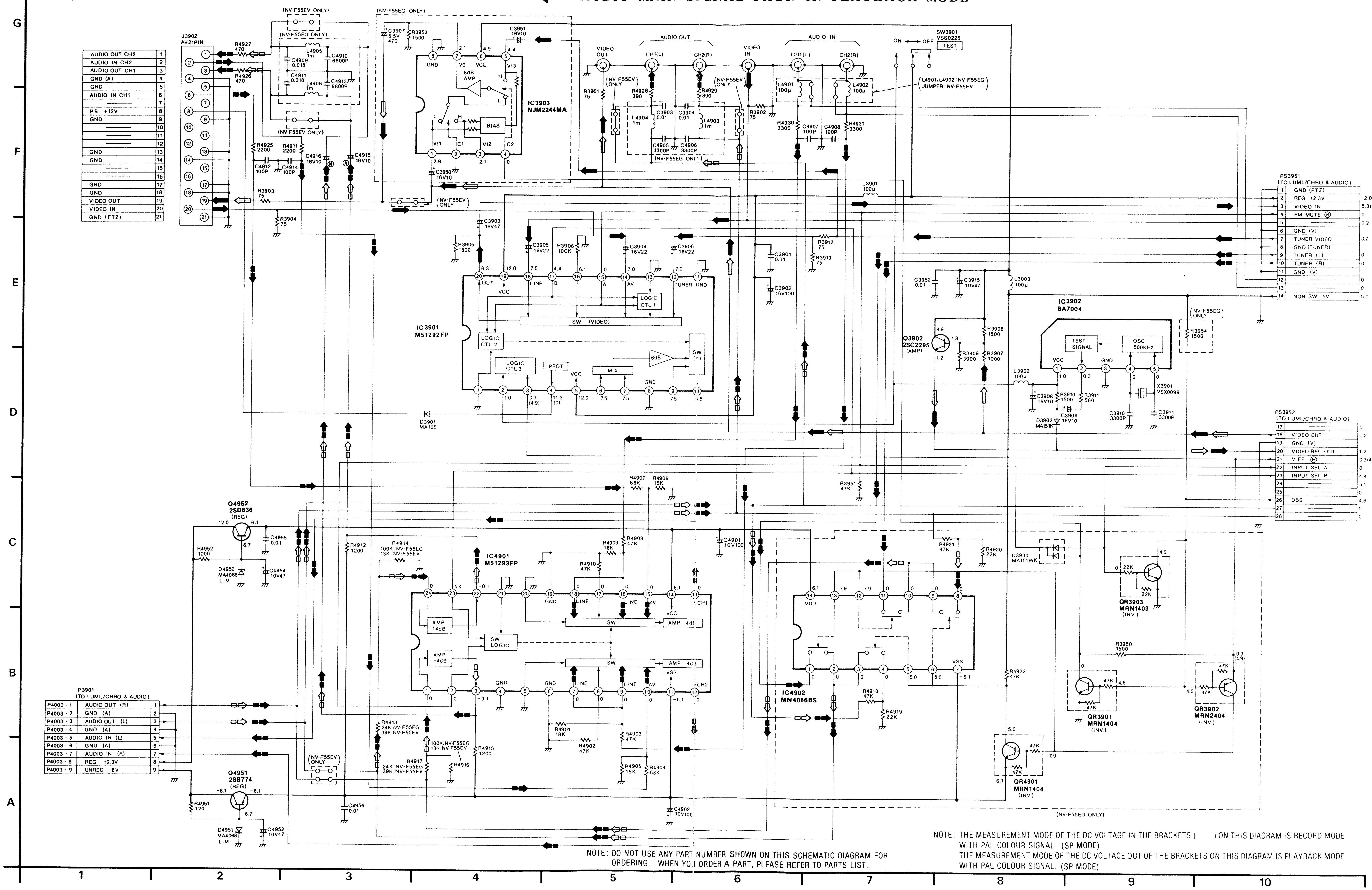
3-14. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

⬅ VIDEO MAIN SIGNAL PATH IN REC MODE

⇦ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

⬅■ AUDIO MAIN SIGNAL PATH IN REC MODE

⇦□ AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
AUDIO OUT CH2 1
AUDIO IN CH2 2
AUDIO OUT CH1 3
GND (A) 4
GND 5
AUDIO IN CH1 6
7
PB +12V 8
GND 9
10
11
12
GND 13
GND 14
15
16
GND 17
GND 18
VIDEO OUT 19
VIDEO IN 20
GND (FTZ) 21
J3902
AV21PIN
(NV-F55EV ONLY)
(NV-F55EG ONLY)
IC3903
NJM2244MA
6dB AMP
BIAS
VIDEO OUT
AUDIO OUT
CH1(L)
CH2(R)
VIDEO IN
AUDIO IN
SW3901
VSS0225
ON ← → OFF
TEST
(L4901, L4902 NV-F55EG)
(JUMPER: NV-F55EV)
IC3901
M51292FP
LOGIC CTL 1
LOGIC CTL 2
LOGIC CTL 3
SW (VIDEO)
PROT
MIX
6dB
SW (A)
IC3902
BA7004
TEST SIGNAL
OSC 500KHz
X3901
VSX0099
Q3902
2SC2295
(AMP)
D3901
MA165
D3902
MA151K
PS3951
(TO LUMI./CHRO. & AUDIO)
1 GND (FTZ)
2 REG 12.3V 12.0
3 VIDEO IN 5.3(5.6)
4 FM MUTE Ⓗ 0
5 0.2
6 GND (V)
7 TUNER VIDEO 3.7
8 GND (TUNER)
9 TUNER (L) 0
10 TUNER (R) 0
11 GND (V)
12 0
13 0
14 NON SW 5V 5.0
PS3952
(TO LUMI./CHRO. & AUDIO)
17 0
18 VIDEO OUT 0.2
19 GND (V)
20 VIDEO RFC OUT 1.2
21 V. EE Ⓗ 0.3(4.9)
22 INPUT SEL A 0
23 INPUT SEL B 4.4
24 5.1
25 0
26 DBS 4.6
27 0
28 0
Q4952
2SD636
(REG)
D4952
MA4068
L.M
IC4901
M51293FP
AMP 14dB
SW LOGIC
SW
AMP 4dB
IC4902
MN4066BS
D3930
MA151WK
QR3903
MRN1403
(INV.)
QR3901
MRN1404
(INV.)
QR3902
MRN2404
(INV.)
QR4901
MRN1404
(INV.)
(NV-F55EG ONLY)
P3901
(TO LUMI./CHRO. & AUDIO)
P4003 - 1 AUDIO OUT (R) 1
P4003 - 2 GND (A) 2
P4003 - 3 AUDIO OUT (L) 3
P4003 - 4 GND (A) 4
P4003 - 5 AUDIO IN (L) 5
P4003 - 6 GND (A) 6
P4003 - 7 AUDIO IN (R) 7
P4003 - 8 REG 12.3V 8
P4003 - 9 UNREG -8V 9
Q4951
2SB774
(REG)
D4951
MA4068
L.M

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

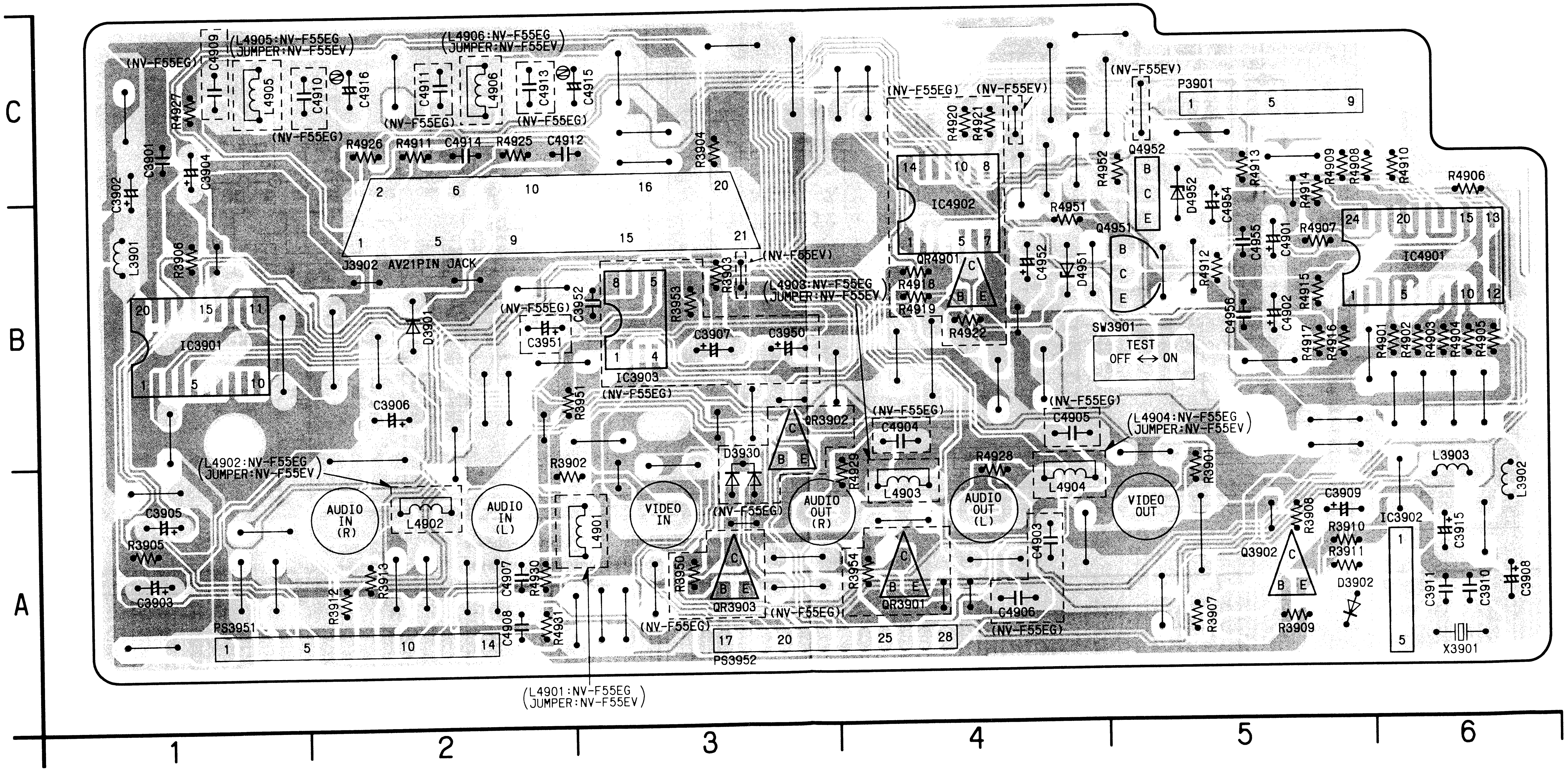
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

Back Page:
Hi-Fi AUDIO Section

3-15. INPUT/OUTPUT PACK C.B.A. (VEP04356A: NV-F55EG) (VEP04356B: NV-F55EV)

INPUT/OUTPUT PACK C.B.A.			
Transistor		**Integrated Circuit**	
Q3902	A-5	IC3901	B-1
Q4951	B-5	IC3902	A-6
Q4952	C-5	IC3903	B-3
Transistor & Resistor		IC4901	B-6
QR3901	A-4	IC4902	B-4
QR3902	B-3	**Connector**	
QR3903	A-3	P3901	C-5
QR4901	B-4	PS3951	A-1
		PS3952	A-3

ADDRESS INFORMATION



C
B
A
1
2
3
4
5
6
(NV-F55EG)
(L4905:NV-F55EG JUMPER:NV-F55EV)
(L4906:NV-F55EG JUMPER:NV-F55EV)
(L4903:NV-F55EG JUMPER:NV-F55EV)
(L4902:NV-F55EG JUMPER:NV-F55EV)
(L4904:NV-F55EG JUMPER:NV-F55EV)
(L4901:NV-F55EG JUMPER:NV-F55EV)
(NV-F55EV)
J3902 AV21PIN JACK
IC3901
IC3902
IC3903
IC4901
IC4902
P3901
PS3951
PS3952
Q3902
Q4951
Q4952
QR3901
QR3902
QR3903
QR4901
D3901
D3902
D3930
D4951
D4952
L3901
L3902
L3903
X3901
SW3901
TEST
OFF ↔ ON
AUDIO IN (R)
AUDIO IN (L)
VIDEO IN
AUDIO OUT (R)
AUDIO OUT (L)
VIDEO OUT

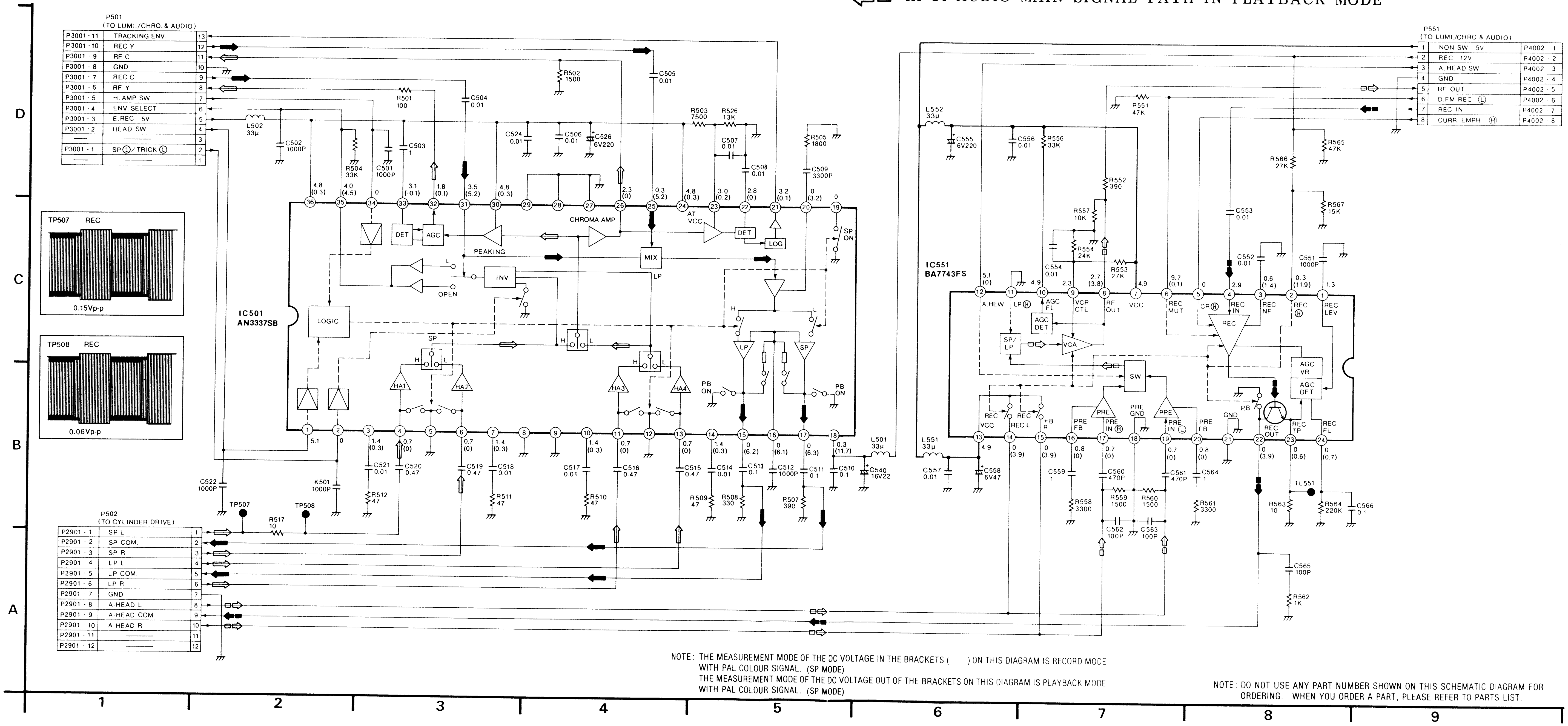
3-16. HEAD AMP SCHEMATIC DIAGRAM

◀ VIDEO MAIN SIGNAL PATH IN REC MODE

◁ VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

◀■ Hi-Fi AUDIO MAIN SIGNAL PATH IN REC MODE

◁□ Hi-Fi AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

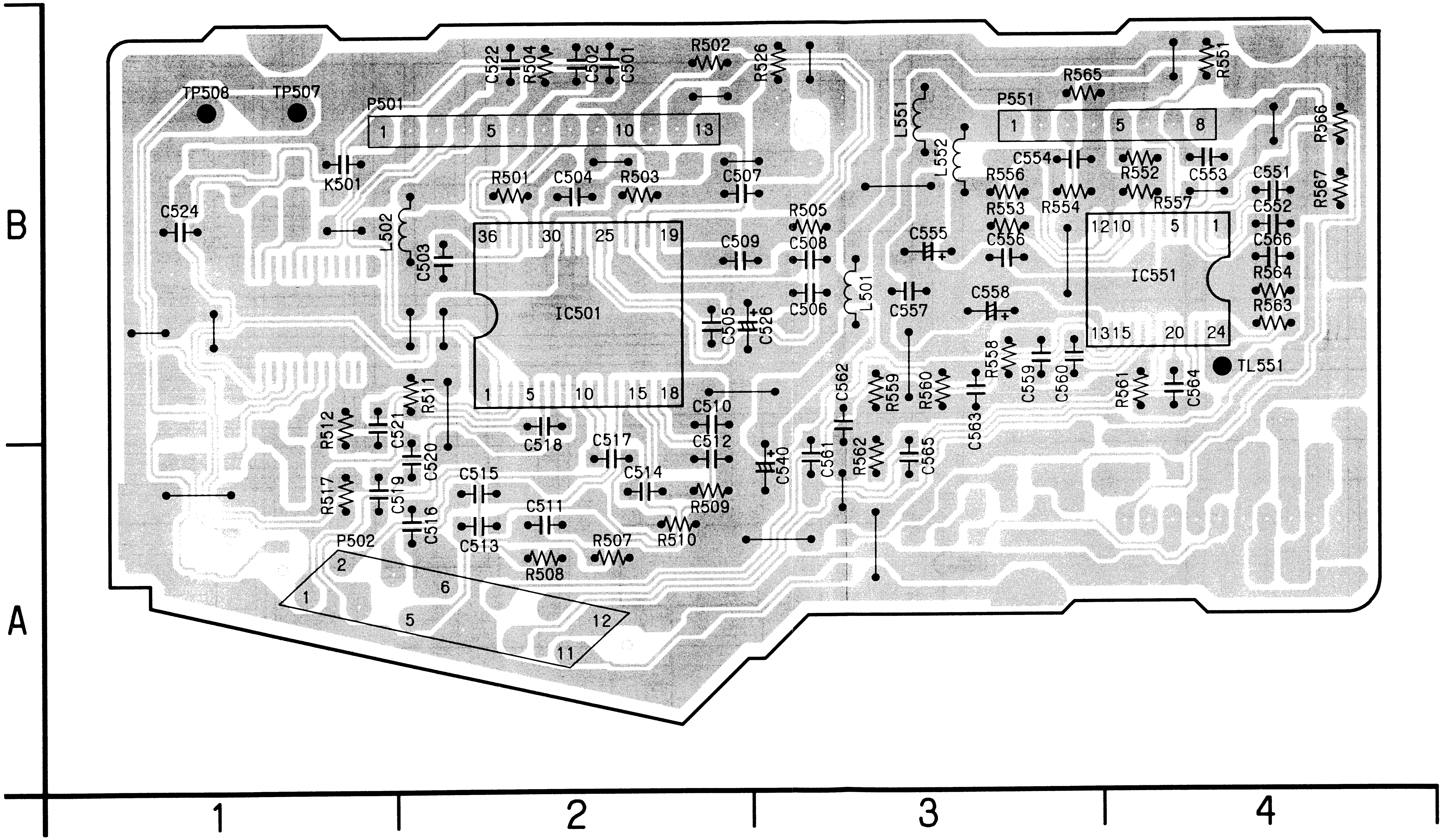

P501
(TO LUMI./CHRO. & AUDIO)
P3001-11 TRACKING ENV. 13
P3001-10 REC Y 12
P3001-9 RF C 11
P3001-8 GND 10
P3001-7 REC C 9
P3001-6 RF Y 8
P3001-5 H. AMP SW 7
P3001-4 ENV. SELECT 6
P3001-3 E.REC 5V 5
P3001-2 HEAD SW 4
3
P3001-1 SP Ⓛ/TRICK Ⓛ 2
1
TP507 REC
0.15Vp-p
TP508 REC
0.06Vp-p
IC501
AN3337SB
CHROMA AMP
PEAKING
MIX
INV.
LOGIC
DET
AGC
LOG
OPEN
HA1
HA2
HA3
HA4
P502
(TO CYLINDER DRIVE)
P2901-1 SP L 1
P2901-2 SP COM 2
P2901-3 SP R 3
P2901-4 LP L 4
P2901-5 LP COM 5
P2901-6 LP R 6
P2901-7 GND 7
P2901-8 A.HEAD L 8
P2901-9 A.HEAD COM 9
P2901-10 A.HEAD R 10
P2901-11 11
P2901-12 12
P551
(TO LUMI./CHRO & AUDIO)
1 NON SW 5V P4002-1
2 REC 12V P4002-2
3 A.HEAD SW P4002-3
4 GND P4002-4
5 RF OUT P4002-5
6 D.FM REC Ⓛ P4002-6
7 REC IN P4002-7
8 CURR. EMPH Ⓗ P4002-8
IC551
BA7743FS
A.HEW
SP/LP
AGC DET
VCA
VCR CTL
RF OUT
SW
PRE
REC
AGC VR
AGC DET
TL551
L502 33μ
L501 33μ
L551 33μ
L552 33μ
D
C
B
A
1
2
3
4
5
6
7
8
9

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
INPUT/OUTPUT Section

3-17. HEAD AMP C.B.A. (VEP05170E)

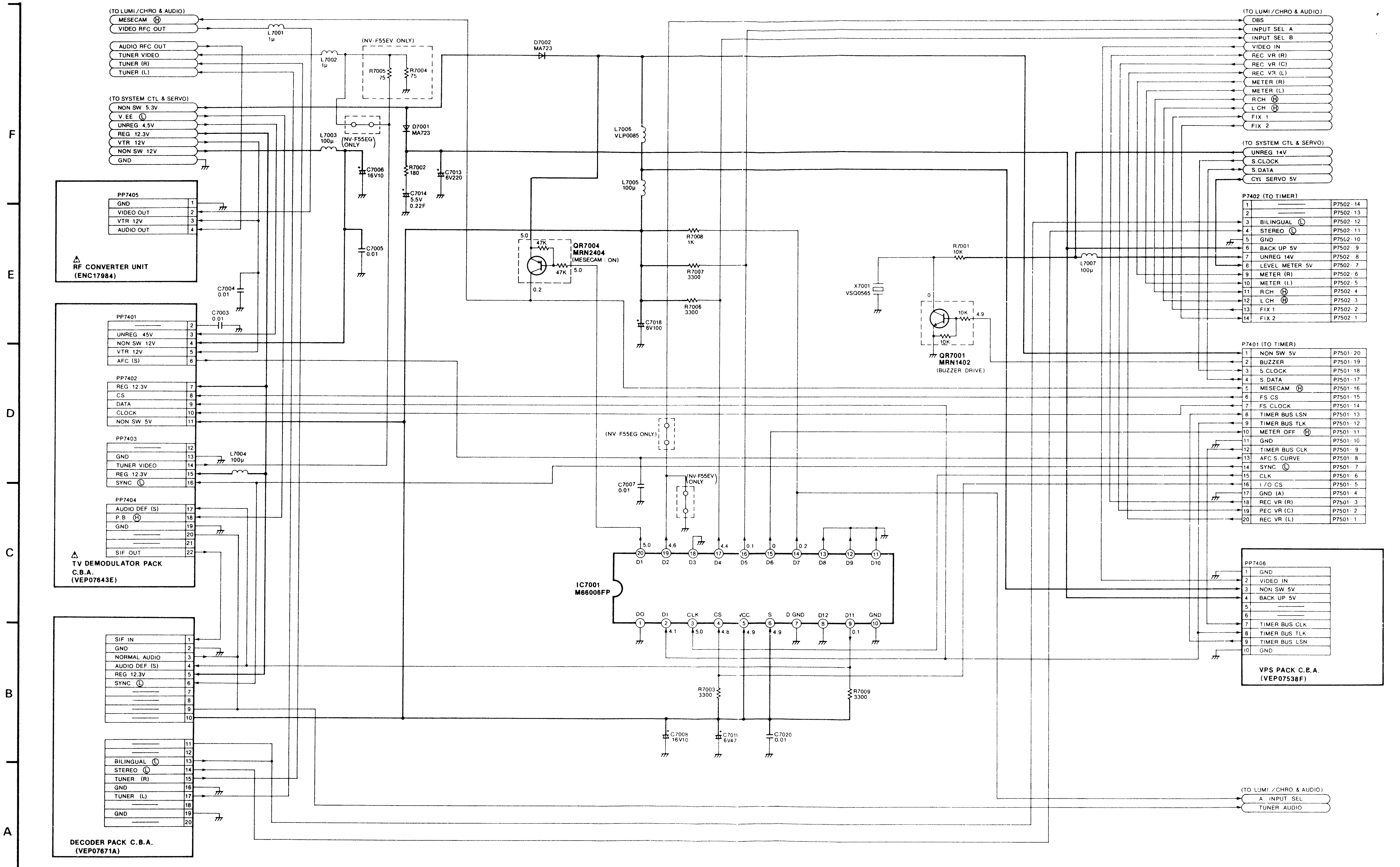


TP508
TP507
P501
1
5
10
13
C522
R504
C502
C501
R502
R526
K501
C524
R501
C504
R503
C507
L502
C503
36
30
25
19
IC501
1
5
10
15
18
C509
R505
C508
C506
L501
C505
C526
R512
C521
R511
C520
C518
C517
C510
C512
R517
C519
C516
C515
C514
C511
C513
R509
R510
R507
R508
C540
C561
C562
R562
C565
R559
R560
R558
C563
C559
C560
P502
2
6
1
5
12
11
L551
L552
R565
P551
1
5
8
R551
C554
R556
R552
C553
R553
R554
R557
C555
C556
C557
C558
C551
C552
C566
R564
R563
R566
R567
12
10
5
1
IC551
13
15
20
24
TL551
R561
C564
B
A
1
2
3
4

HEAD AMP C.B.A.	
Integrated Circuit	
IC501 IC551	B-2 B-4
Test Point	
TL551 TP507 TP508	B-4 B-1 B-1
Connector	
P501 P502 P551	B-2 A-1 B-3

ADDRESS INFORMATION

3-18. CHANNEL SELECT SCHEMATIC DIAGRAM


(TO LUMI/CHRO & AUDIO)
MESECAM Ⓗ
VIDEO RFC OUT
AUDIO RFC OUT
TUNER VIDEO
TUNER (R)
TUNER (L)
(TO SYSTEM CTL & SERVO)
NON SW 5.3V
V.EE Ⓛ
UNREG 4.5V
REG 12.3V
VTR 12V
NON SW 12V
GND
PP7405
1 GND
2 VIDEO OUT
3 VTR 12V
4 AUDIO OUT
RF CONVERTER UNIT
(ENC17984)
PP7401
2 ———
3 UNREG 45V
4 NON SW 12V
5 VTR 12V
6 AFC (S)
PP7402
7 REG 12.3V
8 CS
9 DATA
10 CLOCK
11 NON SW 5V
PP7403
12 ———
13 GND
14 TUNER VIDEO
15 REG 12.3V
16 SYNC Ⓛ
PP7404
17 AUDIO DEF (S)
18 P.B Ⓗ
19 GND
20 ———
21 ———
22 SIF OUT
TV DEMODULATOR PACK
C.B.A.
(VEP07643E)
1 SIF IN
2 GND
3 NORMAL AUDIO
4 AUDIO DEF. (S)
5 REG 12.3V
6 SYNC Ⓛ
7 ———
8 ———
9 ———
10 ———
11 ———
12 ———
13 BILINGUAL Ⓛ
14 STEREO Ⓛ
15 TUNER (R)
16 GND
17 TUNER (L)
18 ———
19 GND
20 ———
DECODER PACK C.B.A.
(VEP07671A)
L7001
1μ
L7002
1μ
(NV-F55EV ONLY)
R7005
75
R7004
75
L7003
100μ
(NV-F55EG ONLY)
C7006
16V10
C7005
0.01
C7004
0.01
C7003
0.01
L7004
100μ
D7001
MA723
R7002
180
C7014
5.5V
0.22F
C7013
6V220
D7002
MA723
L7006
VLP0085
L7005
100μ
5.0
47K
QR7004
MRN2404
(MESECAM : ON)
47K
5.0
0.2
R7008
1K
R7007
3300
R7006
3300
C7018
6V100
(NV-F55EG ONLY)
C7007
0.01
(NV-F55EV ONLY)
5.0
4.6
4.4
0.1
0
0.2
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
IC7001
M66006FP
DO
DI
CLK
CS
VCC
S
D GND
D12
D11
GND
4.1
5.0
4.8
4.9
4.9
0.1
R7003
3300
R7009
3300
C7008
16V10
C7019
6V47
C7020
0.01
X7001
VSQ0565
R7001
10K
0
10K
4.9
10K
QR7001
MRN1402
(BUZZER DRIVE)
L7007
100μ
(TO LUMI/CHRO & AUDIO)
DBS
INPUT SEL A
INPUT SEL B
VIDEO IN
REC VR (R)
REC VR (C)
REC VR (L)
METER (R)
METER (L)
R CH Ⓗ
L CH Ⓗ
FIX 1
FIX 2
(TO SYSTEM CTL & SERVO)
UNREG 14V
S.CLOCK
S.DATA
CYL SERVO 5V
P7402 (TO TIMER)
1 ——— P7502·14
2 ——— P7502·13
3 BILINGUAL Ⓛ P7502·12
4 STEREO Ⓛ P7502·11
5 GND P7502·10
6 BACK UP 5V P7502·9
7 UNREG 14V P7502·8
8 LEVEL METER 5V P7502·7
9 METER (R) P7502·6
10 METER (L) P7502·5
11 R CH Ⓗ P7502·4
12 L CH Ⓗ P7502·3
13 FIX 1 P7502·2
14 FIX 2 P7502·1
P7401 (TO TIMER)
1 NON SW 5V P7501·20
2 BUZZER P7501·19
3 S.CLOCK P7501·18
4 S.DATA P7501·17
5 MESECAM Ⓗ P7501·16
6 FS CS P7501·15
7 FS CLOCK P7501·14
8 TIMER BUS LSN P7501·13
9 TIMER BUS TLK P7501·12
10 METER OFF Ⓗ P7501·11
11 GND P7501·10
12 TIMER BUS CLK P7501·9
13 AFC S.CURVE P7501·8
14 SYNC Ⓛ P7501·7
15 CLK P7501·6
16 I/O CS P7501·5
17 GND (A) P7501·4
18 REC VR (R) P7501·3
19 REC VR (C) P7501·2
20 REC VR (L) P7501·1
PP7406
1 GND
2 VIDEO IN
3 NON SW 5V
4 BACK UP 5V
5 ———
6 ———
7 TIMER BUS CLK
8 TIMER BUS TLK
9 TIMER BUS LSN
10 GND
VPS PACK C.B.A.
(VEP07538F)
(TO LUMI/CHRO & AUDIO)
A INPUT SEL
TUNER AUDIO
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

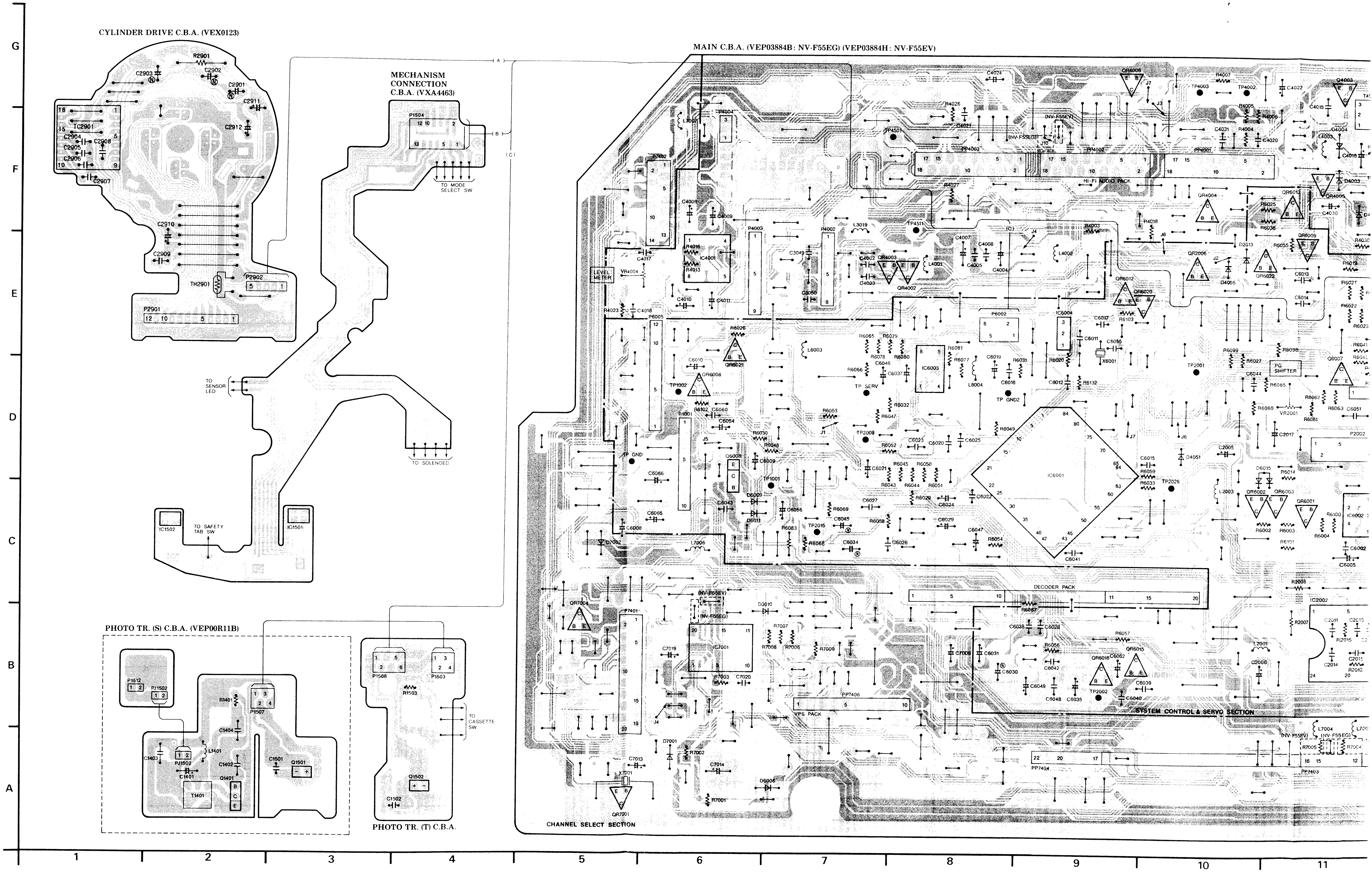
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

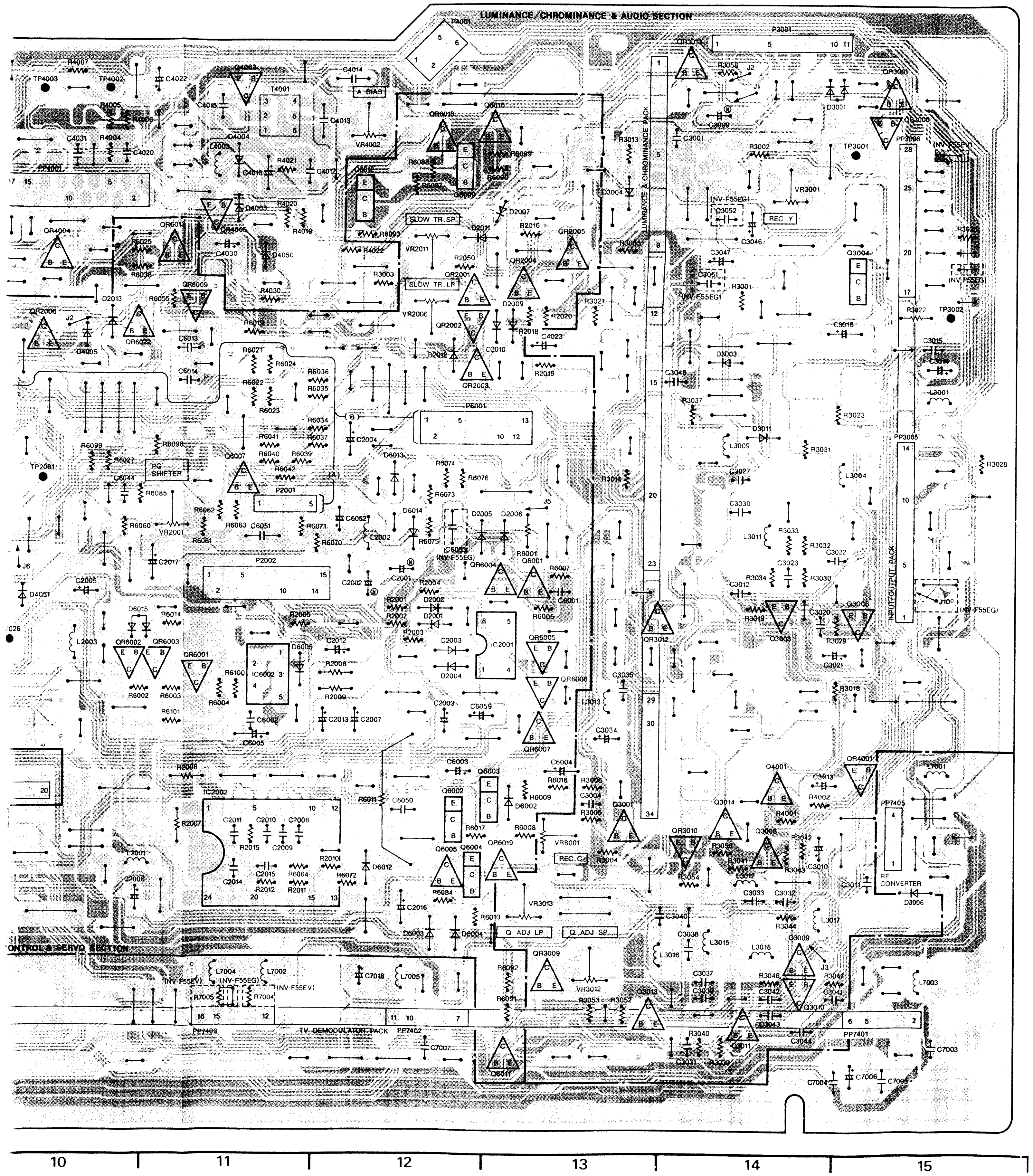
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

Back Page:
HEAD AMP Section

3-19. MAIN C.B.A. (VEP03884B: NV-F55EG) (VEP03884H: NV-F55EV)


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
CYLINDER DRIVE C.B.A. (VEX0123)
MECHANISM CONNECTION C.B.A. (VXA4463)
TO MODE SELECT SW
TO SENSOR LED
TO SOLENOED
TO SAFETY TAB SW
IC1502
IC1501
PHOTO TR. (S) C.B.A. (VEP00R11B)
PHOTO TR. (T) C.B.A.
TO CASSETTE SW
MAIN C.B.A. (VEP03884B: NV-F55EG) (VEP03884H: NV-F55EV)
HI-FI AUDIO PACK
LEVEL METER
PG SHIFTER
IC6001
DECODER PACK
VPS PACK
SYSTEM CONTROL & SERVO SECTION
CHANNEL SELECT SECTION
TP GND
TP SERV
TP GND2
(NV-F55EV)
(NV-F55EG)


LUMINANCE/CHROMINANCE & AUDIO SECTION
LUMINANCE & CHROMINANCE PACK
INPUT/OUTPUT PACK
TV DEMODULATOR PACK
ONTROL & SERVO SECTION
RF CONVERTER
A-BIAS
SLOW TR. SP.
SLOW TR. LP
REC Y
REC C
Q ADJ LP
Q ADJ SP
FG SHIFTER
(NV-F55EG)
(NV-F55EV)
TP4003
TP4002
TP3001
TP3002
TP2001
P3001
P4001
P6001
P2001
P2002
PP3005
PP3006
PP7401
PP7402
PP7403
PP7405
IC2001
IC2002
IC6002
VR2001
VR2006
VR2011
VR3001
VR3012
VR3013
VR4002
VR8001
10
11
12
13
14
15

MAIN C.B.A. ADDRESS INFORMATION

SYSTEM CONTROL & SERVO Section	
Transistor	
Q1401	A-2
Q1501	A-3
Q1502	A-4
Q6001	D-13
Q6002	C-12
Q6003	C-13
Q6004	B-12
Q6005	B-12
Q6007	D-11
Q6008	D-6
Q6009	F-12
Q6010	G-13
Q6011	A-13
Q6012	F-12
Transistor & Resistor	
QR2001	F-12
QR2002	E-12
QR2003	E-12
QR2004	F-13
QR2005	F-13
QR2006	E-10
QR6001	C-11
QR6002	C-10
QR6003	C-11
QR6004	D-13
QR6005	C-13
QR6006	C-13
QR6007	C-13
QR6008	D-6
QR6009	E-11
QR6012	E-9
QR6013	F-11
QR6015	B-9
QR6016	B-9
QR6018	F-12
QR6019	B-13
QR6020	E-10
QR6021	E-6
QR6022	E-10
Integrated Circuit	
IC1501	C-3
IC1502	C-2
IC2001	C-13
IC2002	B-11
IC2901	F-1
IC6001	D-9
IC6002	C-11
IC6003	D-8
IC6004	E-9
Test Point	
TP1001	C-7
TP1002	D-6
TP2001	D-10
TP2002	B-9
TP2009	D-7
TP2015	C-7
TP2026	C-10
TP GND	D-5
TP GND2	D-8
TP SERV	D-7
Adjustment	
VR2001	D-11
VR2006	E-12
VR2011	F-12
Connector	
P1001	D-6
P1503	B-4
P1504	F-4
P1507	B-2
P1508	B-3
P1512	B-1
P2001	D-11
P2002	D-11
P2901	E-2
P2902	E-2
P6001	E-12
P6002	E-8
P6005	E-6
PJ1502	A-2
PJ1502	B-2

ADDRESS INFORMATION

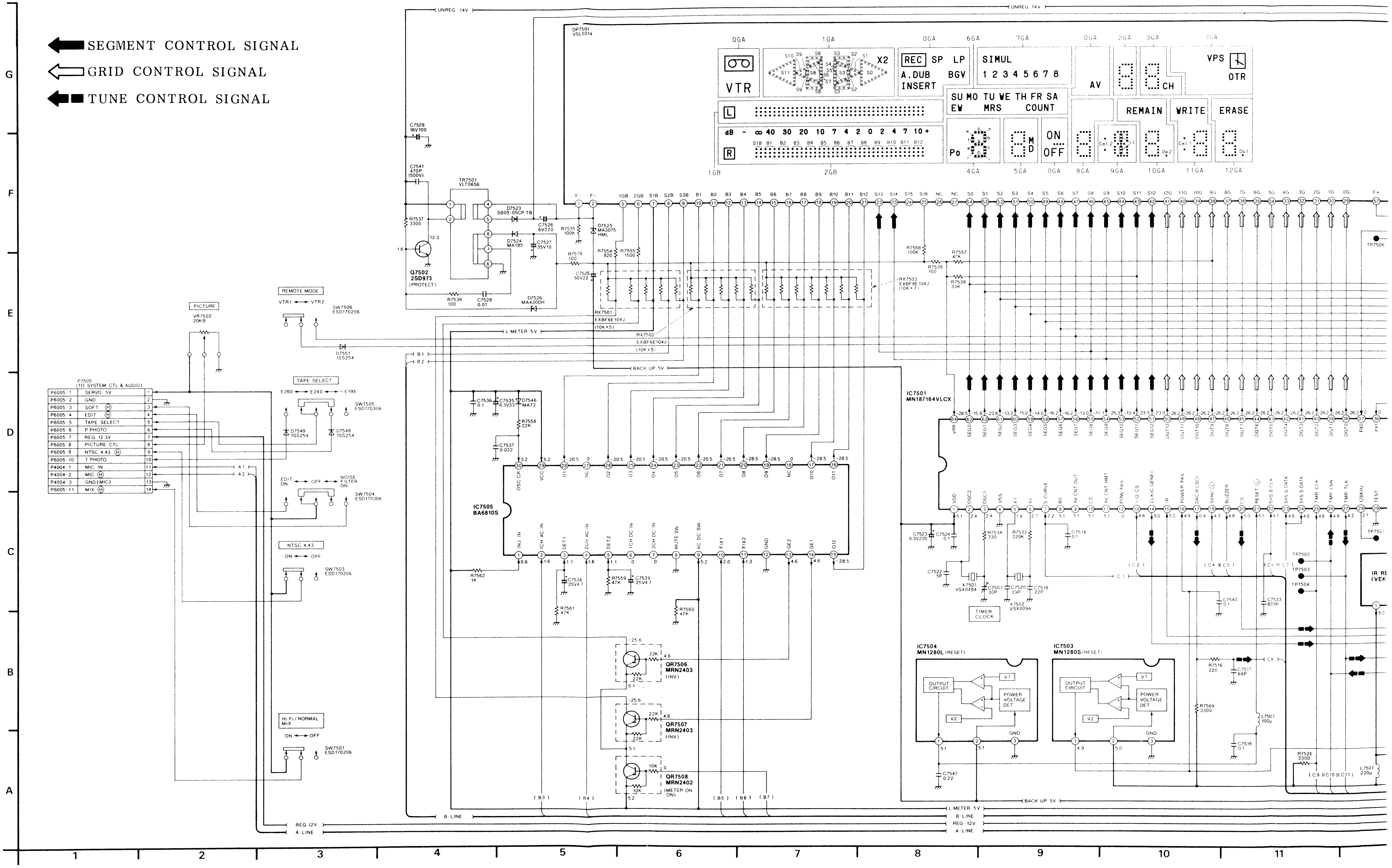
LUMINANCE/ CHROMINANCE & AUDIO Section	
Transistor	
Q3001	B-13
Q3003	D-14
Q3004	F-15
Q3006	D-15
Q3008	C-14
Q3009	C-14
Q3010	A-14
Q3011	A-14
Q3013	A-13
Q3014	C-14
Q4001	C-14
Q4003	G-11
Transistor & Resistor	
QR3001	G-15
QR3006	F-15
QR3009	B-13
QR3010	B-14
QR3012	D-14
QR3013	G-14
QR4001	C-15
QR4002	E-8
QR4003	E-7
QR4004	F-10
QR4005	F-11
QR4006	G-9
Integrated Circuit	
IC4001	E-6
Test Point	
TP3001	F-15
TP3002	E-15
TP4002	G-10
TP4003	G-10
TP4501	F-8
TP4511	F-8
Adjustment	
VR3001	F-14
VR3012	A-13
VR3013	B-13
VR4002	F-12
VR4004	E-5
VR8001	B-13
Connector	
P3001	G-14
P4001	G-12
P4002	E-7
P4003	E-6
P4004	F-6
PP3005	E-15
PP3006	F-15
PP4001	F-10
PP4002	F-9
PP4003	F-8

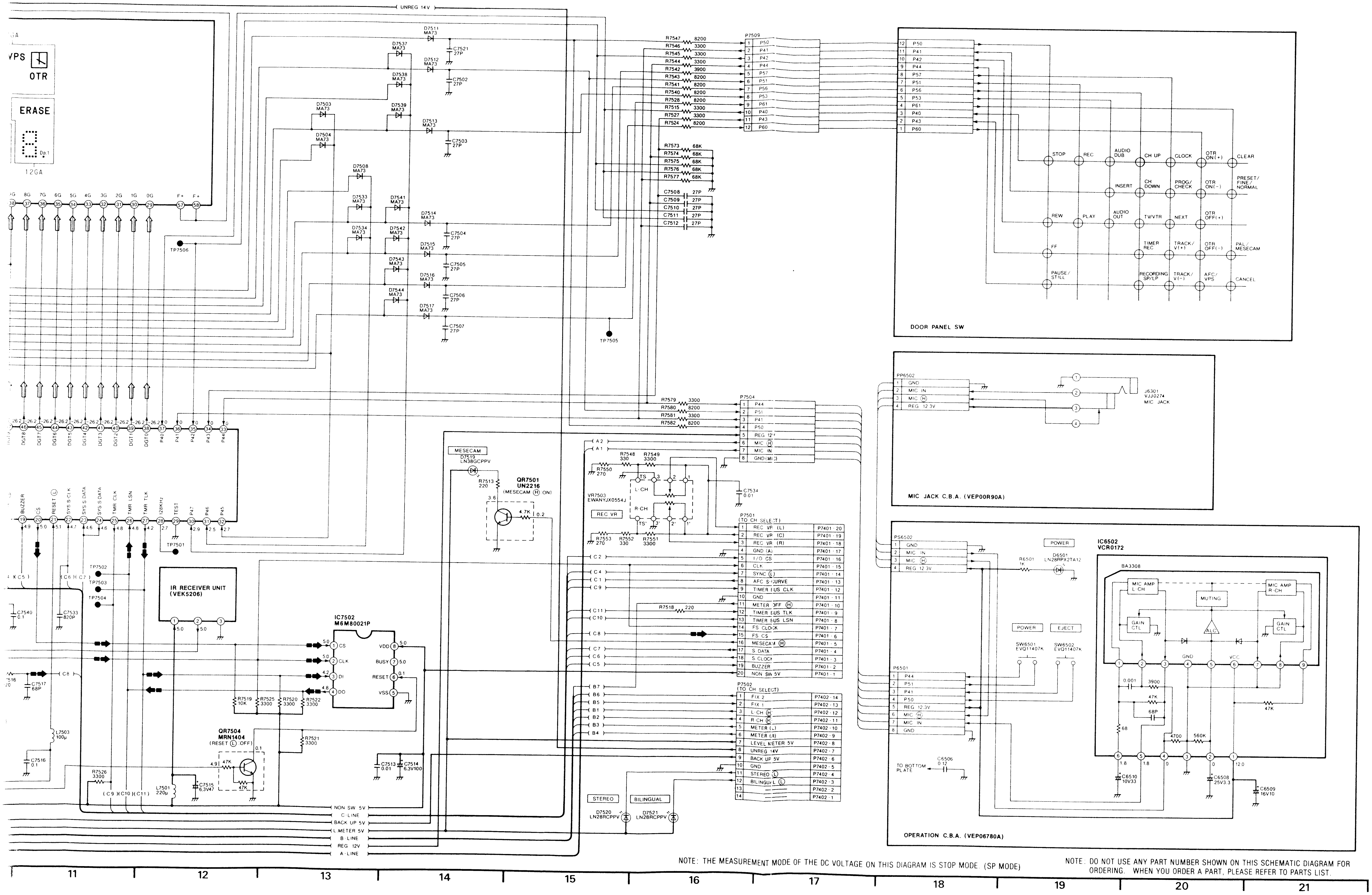
ADDRESS INFORMATION

CHANNEL SELECT Section	
Transistor & Resistor	
QR7001	A-5
QR7004	B-5
Integrated Circuit	
IC7001	B-6
Connector	
P7401	B-5
P7402	F-6
PP7401	A-15
PP7402	A-12
PP7403	A-11
PP7404	A-9
PP7405	B-15
PP7406	B-7

ADDRESS INFORMATION

3-20. TIMER & OPERATION SCHEMATIC DIAGRAM

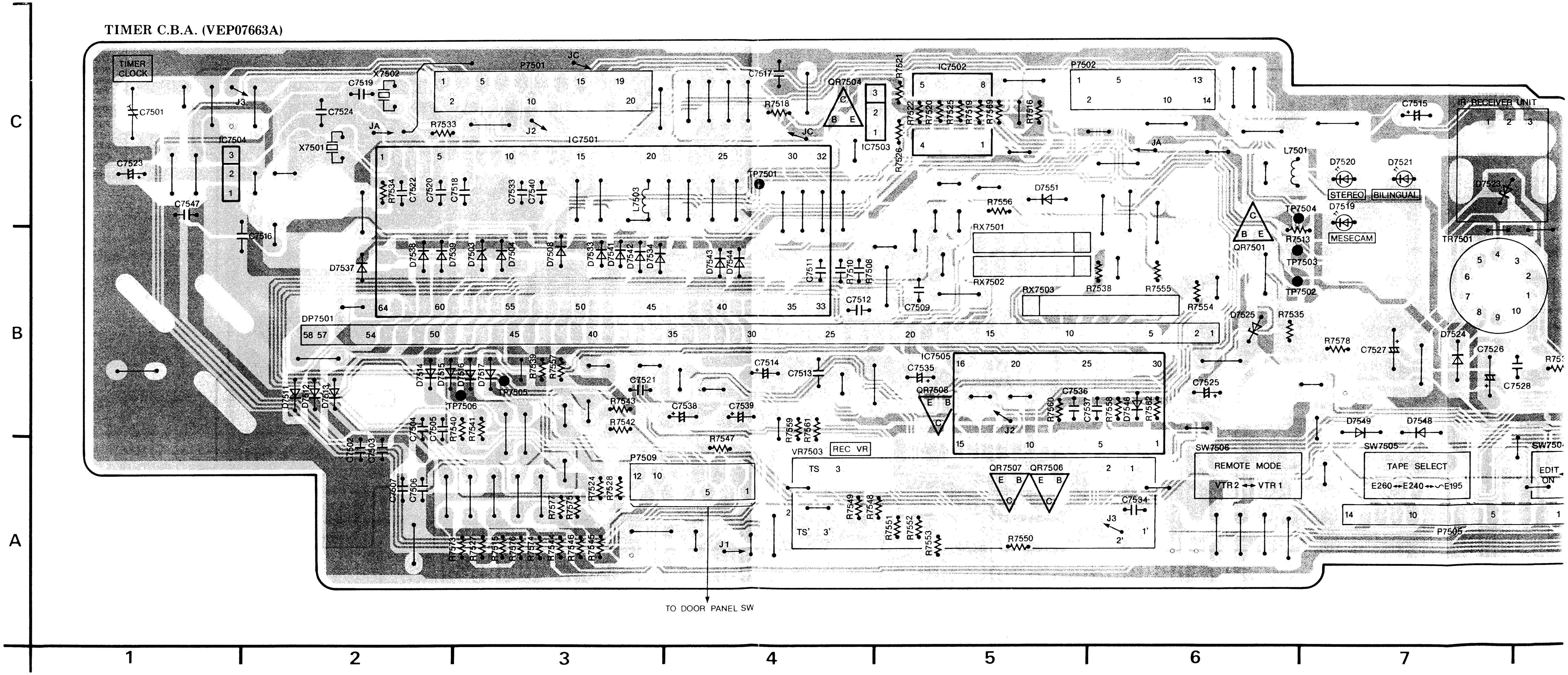

SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
TUNE CONTROL SIGNAL
UNREG 14V
DP7501 VSL0214
VTR
REC SP LP
A.DUB BGV
INSERT
SIMUL
1 2 3 4 5 6 7 8
SU MO TU WE TH FR SA
EW MRS COUNT
AV
CH
VPS
OTR
REMAIN
WRITE
ERASE
ON
OFF
Po
X2
dB - ∞ 40 30 20 10 7 4 2 0 2 4 7 10+
TR7501 VLT0656
Q7502 2SD973 (PROTECT)
D7523 SB05-05CP-TB
D7524 MA185
D7525 MA3075-HML
D7526 MA4300H
D7551 1SS254
REMOTE MODE
VTR1 ←→ VTR2
SW7506 ESD170206
PICTURE
VR7502 20KB
RX7501 EXBF6E104J (10K×5)
RX7502 EXBF6E104J (10K×5)
RX7503 EXBF8E104J (10K×7)
L METER 5V
BACK UP 5V
B1
B2
P7505 (TO SYSTEM CTL & AUDIO)
P6005-1 SERVO 5V
P6005-2 GND
P6005-3 SOFT (H)
P6005-4 EDIT (H)
P6005-5 TAPE SELECT
P6005-6 P PHOTO
P6005-7 REG 12.3V
P6005-8 PICTURE CTL
P6005-9 NTSC 4.43 (H)
P6005-10 T PHOTO
P4004-1 MIC IN
P4004-2 MIC (H)
P4004-3 GND(MIC)
P6005-11 MIX (H)
TAPE SELECT
E260 ←→ E240 ←→ E195
SW7505 ESD170306
D7549 1SS254
D7548 1SS254
EDIT ON ←→ OFF ←→ NOISE FILTER ON
SW7504 ESD170306
NTSC 4.43
ON ←→ OFF
SW7503 ESD170206
Hi-Fi/NORMAL MIX
ON ←→ OFF
SW7501 ESD170206
IC7505 BA6810S
QR7506 MRN2403 (INV.)
QR7507 MRN2403 (INV.)
QR7508 MRN2402 (METER ON ON)
IC7501 MN187164VLCX
X7501 VSX0484
X7502 VSX0094
TIMER CLOCK
IC7504 MN1280L (RESET)
IC7503 MN1280S (RESET)
OUTPUT CIRCUIT
POWER VOLTAGE DET
GND
TP7502
TP7503
TP7504
TP7506
IR RE (VEK
B-LINE
REG 12V
A-LINE
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11


UNREG 14V
VPS
OTR
ERASE
12GA
DOOR PANEL SW
STOP
REC
AUDIO DUB
CH UP
CLOCK
OTR ON(+)
CLEAR
INSERT
CH DOWN
PROG/ CHECK
OTR ON(−)
PRESET/ FINE/ NORMAL
REW
PLAY
AUDIO OUT
TV/VTR
NEXT
OTR OFF(+)
FF
TIMER REC
TRACK/ V(+)
OTR OFF(−)
PAL/ MESECAM
PAUSE/ STILL
RECORDING SP/LP
TRACK/ V(−)
AFC/ VPS
CANCEL
P7509
P7504
P7501 (TO CH SELECT)
P7502 (TO CH SELECT)
MIC JACK C.B.A. (VEP00R90A)
J6301 VJJ0274 MIC JACK
OPERATION C.B.A. (VEP06780A)
IC6502 VCR0172
BA3308
MIC AMP L-CH
MIC AMP R-CH
MUTING
GAIN CTL
ALC
POWER
EJECT
SW6501 EVQ11407K
SW6502 EVQ11407K
D6501 LN28RPX2TA12
TO BOTTOM PLATE
MESECAM
D7519 LN38GCPPV
QR7501 UN2216 (MESECAM Ⓗ ON)
VR7503 EWANYJX0554J
REC VR
IR RECEIVER UNIT (VEK5206)
IC7502 M6M80021P
CS
CLK
DI
DO
VDD
BUSY
RESET
VSS
QR7504 MRN1404 (RESET Ⓛ OFF)
STEREO
BILINGUAL
D7520 LN28RCPPV
D7521 LN28RCPPV
NON SW 5V
C-LINE
BACK UP 5V
L.METER 5V
B-LINE
REG 12V
A-LINE
TP7501
TP7502
TP7503
TP7504
TP7505
TP7506
11
12
13
14
15
16
17
18
19
20
21

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE (SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

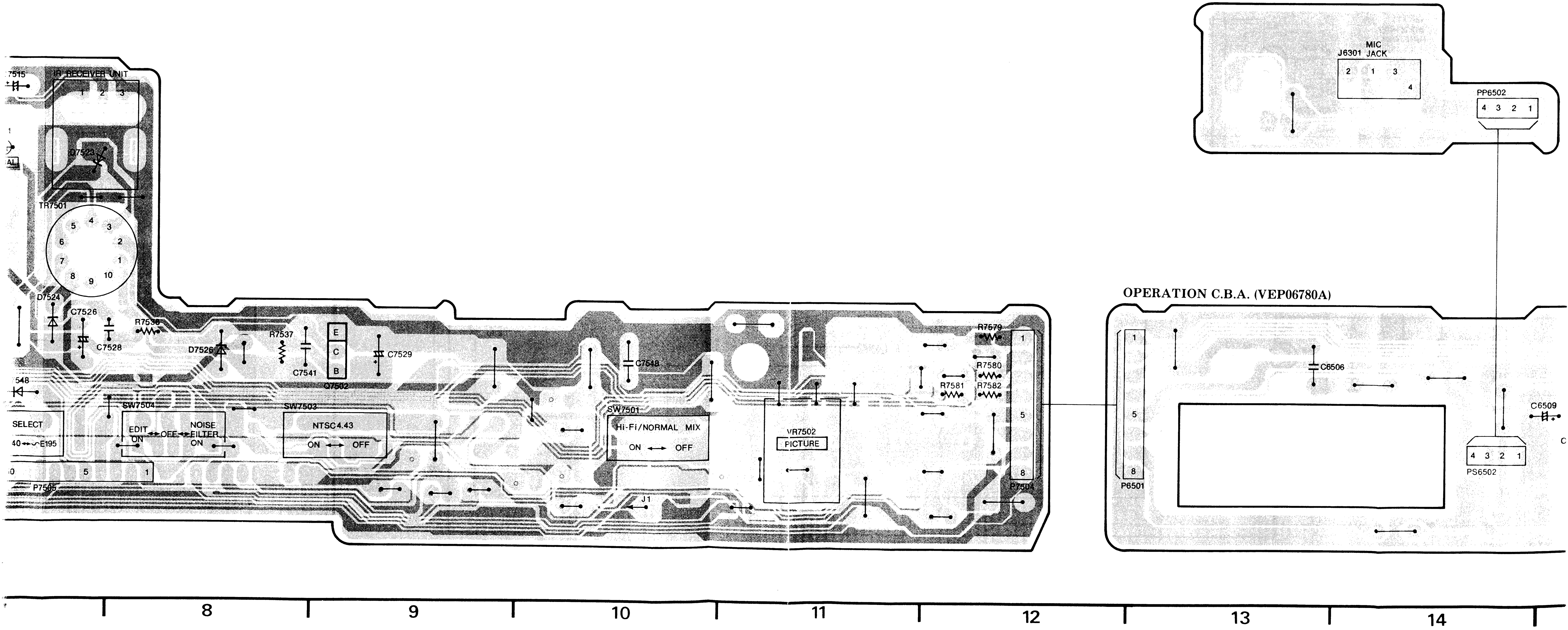
3-21. TIMER C.B.A. (VEP07663A) & OPERATION C.B.A. (VEP06780A)


TIMER C.B.A. (VEP07663A)

TIMER CLOCK
C7501
C7523
C7547
C7516
IC7504
J3
C7519
X7502
C7524
X7501
JA
J2
R7533
P7501
JC
IC7501
TP7501
L7503
D7537
DP7501
C7517
R7518
QR7504
IC7503
R7521
R7526
IC7502
P7502
D7551
R7556
RX7501
RX7502
RX7503
R7538
R7555
R7554
C7511
R7510
R7508
C7512
C7509
L7501
D7520
D7521
STEREO
BILINGUAL
D7519
MESECAM
TP7504
R7513
TP7503
TP7502
QR7501
IR RECEIVER UNIT
TR7501
D7525
R7535
R7578
C7527
D7524
C7526
C7528
C7515
C7514
C7513
IC7505
C7535
QR7508
C7536
C7525
TP7506
TP7505
C7521
R7543
R7542
C7538
C7539
R7547
C7502
C7503
C7504
C7505
C7506
C7507
P7509
REC VR
VR7503
TS
TS'
QR7507
QR7506
C7534
J1
R7550
D7549
D7548
SW7506
REMOTE MODE
VTR 2 ↔ VTR 1
SW7505
TAPE SELECT
E260↔E240↔E195
P7505
EDIT ON
TO DOOR PANEL SW
A
B
C
1
2
3
4
5
6
7

MIC JACK C.B.A. (VEP00R90A)

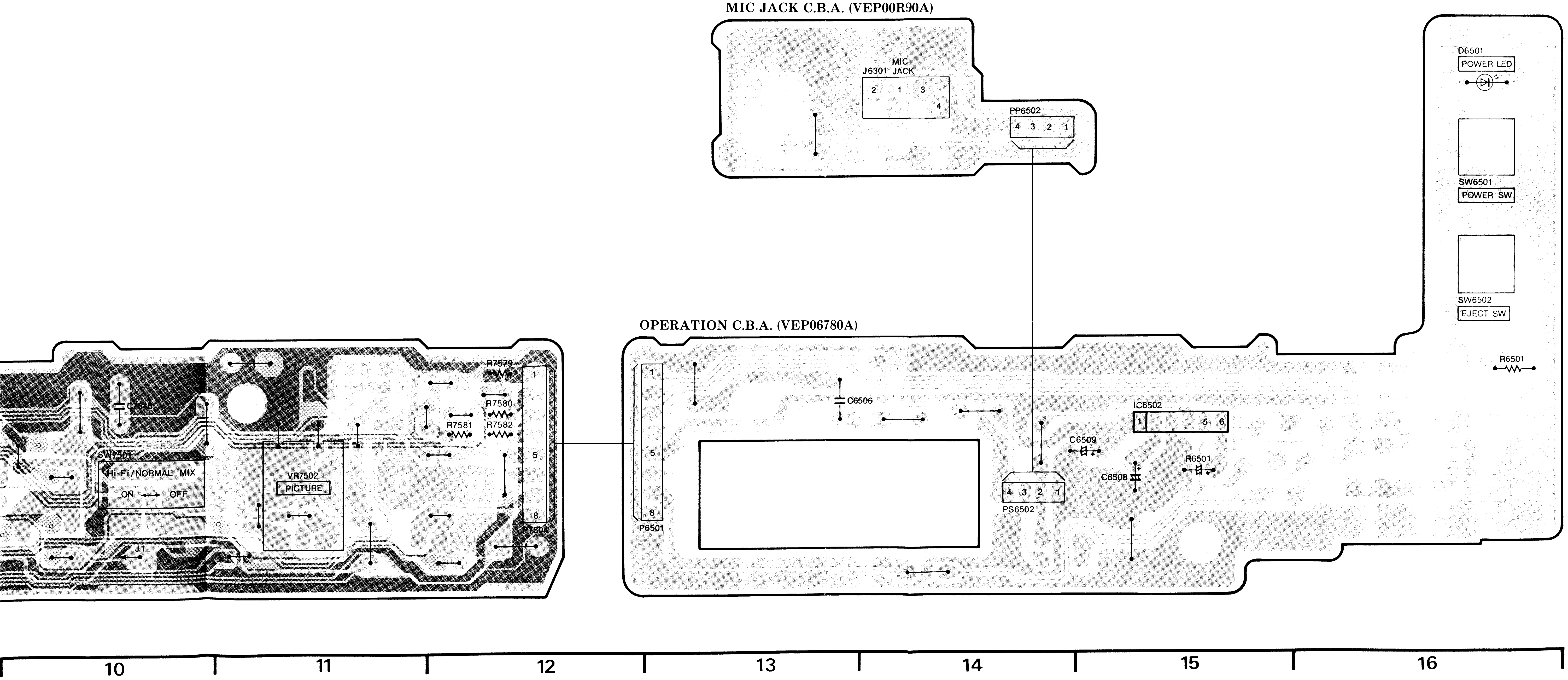
OPERATION C.B.A. (VEP06780A)



7515
IR RECEIVER UNIT
1 2 3
Q7523
TR7501
1 2 3 4 5 6 7 8 9 10
D7524
C7526
C7528
R7536
R7537
D7526
C7541
E C B
Q7502
C7529
C7548
548
SELECT
40 E195
0 5 1
P7505
SW7504
EDIT ON
OFF
NOISE FILTER ON
SW7503
NTSC4.43
ON OFF
SW7501
Hi-Fi/NORMAL MIX
ON OFF
J1
VR7502
PICTURE
R7579
R7580
R7581
R7582
1 5 8
P7504
1 5 8
P6501
C6506
C6509
PS6502
4 3 2 1
J6301
MIC JACK
2 1 3 4
PP6502
4 3 2 1
8 9 10 11 12 13 14

TIMER C.B.A. & OPERATION C.B.A.	
Transistor	
Q7502	B-9
Transistor & Resistor	
QR7501	B-6
QR7504	C-4
QR7506	A-5
QR7507	A-5
QR7508	B-5
Integrated Circuit	
IC6502	B-15
IC7501	C-3
IC7502	C-5
IC7503	C-5
IC7504	C-1
IC7505	B-5
Test Point	
TP7501	C-4
TP7502	B-6
TP7503	B-6
TP7504	C-6
TP7505	B-3
TP7506	B-3
Adjustment	
C7501	C-1
VR7502	A-11
VR7503	A-4
Connector	
P6501	A-13
P7501	C-3
P7502	C-6
P7504	A-12
P7505	A-7
P7509	A-3
PP6502	C-14
PS6502	A-14

ADDRESS INFORMATION

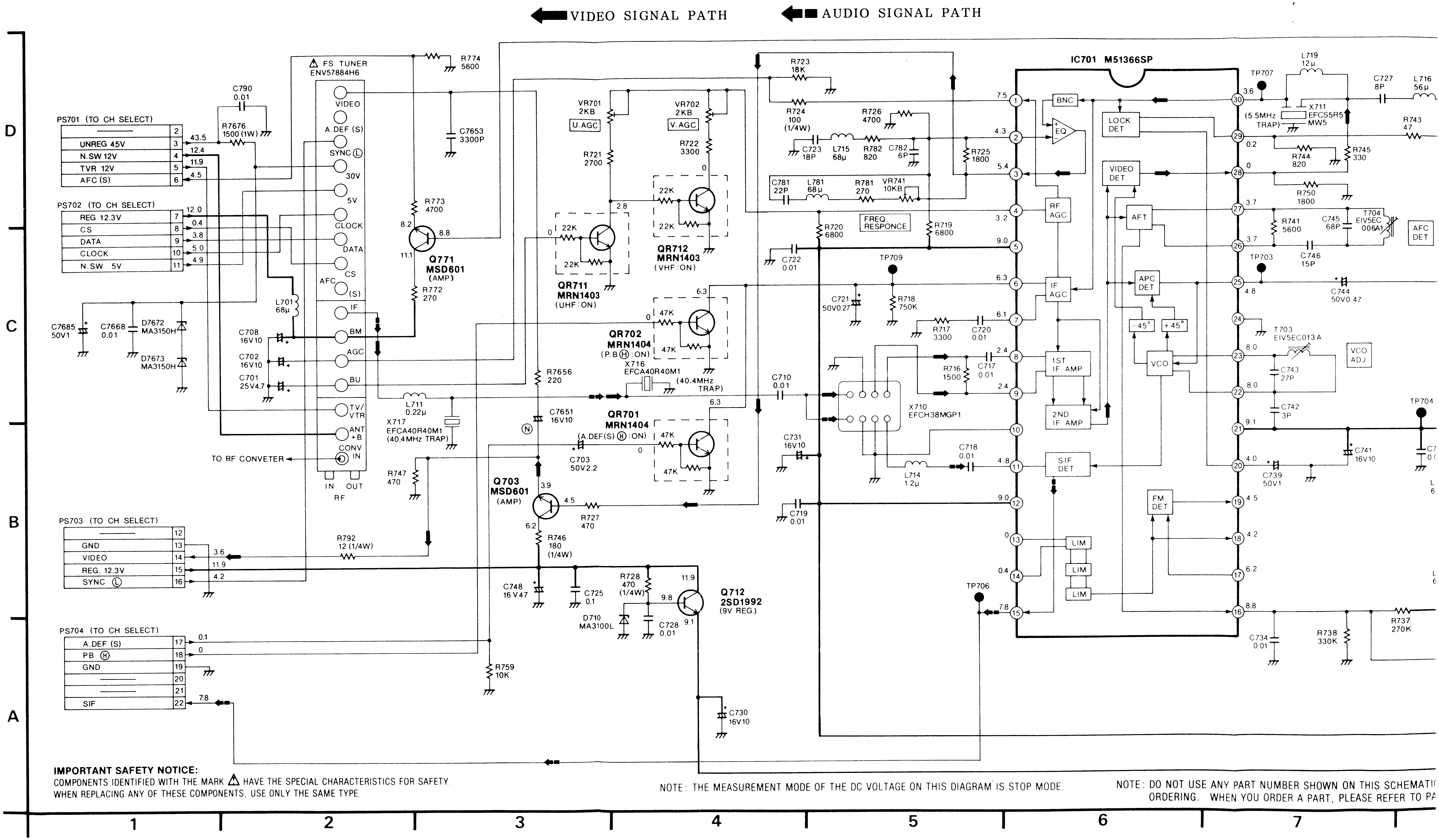

MIC JACK C.B.A. (VEP00R90A)

OPERATION C.B.A. (VEP06780A)

MIC
J6301 JACK
2
1
3
4
PP6502
4 3 2 1
D6501
POWER LED
SW6501
POWER SW
SW6502
EJECT SW
R6501
C6506
IC6502
1
5
6
C6509
C6508
R6501
PS6502
4 3 2 1
P6501
1
5
8
R7579
R7580
R7581
R7582
C7548
SW7501
Hi-Fi/NORMAL MIX
ON
OFF
VR7502
PICTURE
1
5
8
P7504
J1
10
11
12
13
14
15
16

Next Page:
TV DEMODULATOR Section

3-22. TV DEMODULATOR PACK SCHEMATIC DIAGRAM

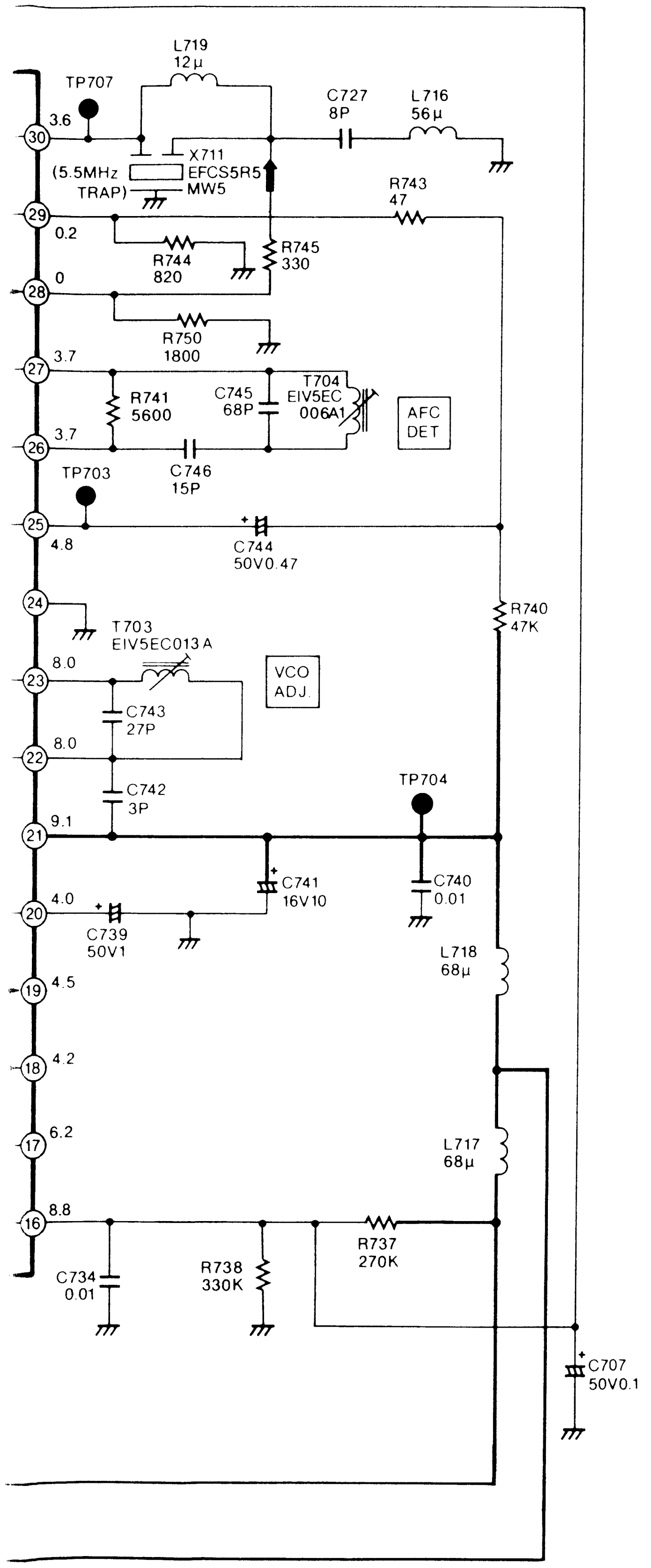

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
D
C
B
A
1
2
3
4
5
6
7
PS701 (TO CH SELECT)
UNREG 45V
N.SW 12V
TVR 12V
AFC (S)
PS702 (TO CH SELECT)
REG 12.3V
CS
DATA
CLOCK
N.SW 5V
PS703 (TO CH SELECT)
GND
VIDEO
REG. 12.3V
SYNC Ⓛ
PS704 (TO CH SELECT)
A.DEF (S)
PB Ⓗ
GND
SIF
⚠ FS TUNER
ENV57884H6
VIDEO
A.DEF (S)
SYNC Ⓛ
30V
5V
CLOCK
DATA
AFC CS (S)
IF
BM
AGC
BU
TV/VTR
ANT +B
CONV IN
IN OUT
RF
TO RF CONVETER
C790 0.01
R7676 1500 (1W)
C7685 50V1
C7668 0.01
D7672 MA3150H
D7673 MA3150H
L701 68µ
C708 16V10
C702 16V10
C701 25V4.7
R774 5600
C7653 3300P
R773 4700
Q771 MSD601 (AMP)
R772 270
L711 0.22µ
X717 EFCA40R40M1 (40.4MHz TRAP)
R747 470
R792 12 (1/4W)
VR701 2KB
U.AGC
R721 2700
QR711 MRN1403 (UHF:ON)
VR702 2KB
V.AGC
R722 3300
QR712 MRN1403 (VHF:ON)
QR702 MRN1404 (P.B Ⓗ:ON)
X716 EFCA40R40M1 (40.4MHz TRAP)
R7656 220
C7651 16V10
QR701 MRN1404 (A.DEF(S) Ⓗ:ON)
C703 50V2.2
Q703 MSD601 (AMP)
R727 470
R746 180 (1/4W)
C748 16V47
C725 0.1
R728 470 (1/4W)
D710 MA3100L
C728 0.01
Q712 2SD1992 (9V REG.)
R759 10K
C730 16V10
R723 18K
R724 100 (1/4W)
R726 4700
C723 18P
L715 68µ
R782 820
C782 6P
R725 1800
C781 22P
L781 68µ
R781 270
VR741 10KB
FREQ RESPONCE
R720 6800
R719 6800
C722 0.01
TP709
C721 50V0.27
R718 750K
R717 3300
C720 0.01
R716 1500
C717 0.01
C710 0.01
X710 EFCH38MGP1
C731 16V10
L714 1.2µ
C718 0.01
C719 0.01
TP706
IC701 M51366SP
BNC
EQ
LOCK DET
VIDEO DET
RF AGC
AFT
IF AGC
APC DET
-45°
+45°
VCO
1ST IF AMP
2ND IF AMP
SIF DET
FM DET
LIM
TP707
L719 12µ
C727 8P
L716 56µ
X711 EFCS5R5 MW5
(5.5MHz TRAP)
R743 47
R744 820
R745 330
R750 1800
R741 5600
C745 68P
T704 EIV5EC 006A1
AFC DET
C746 15P
TP703
C744 50V0.47
T703 EIV5EC013A
VCO ADJ
C743 27P
C742 3P
TP704
C741 16V10
C739 50V1
C734 0.01
R738 330K
R737 270K

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

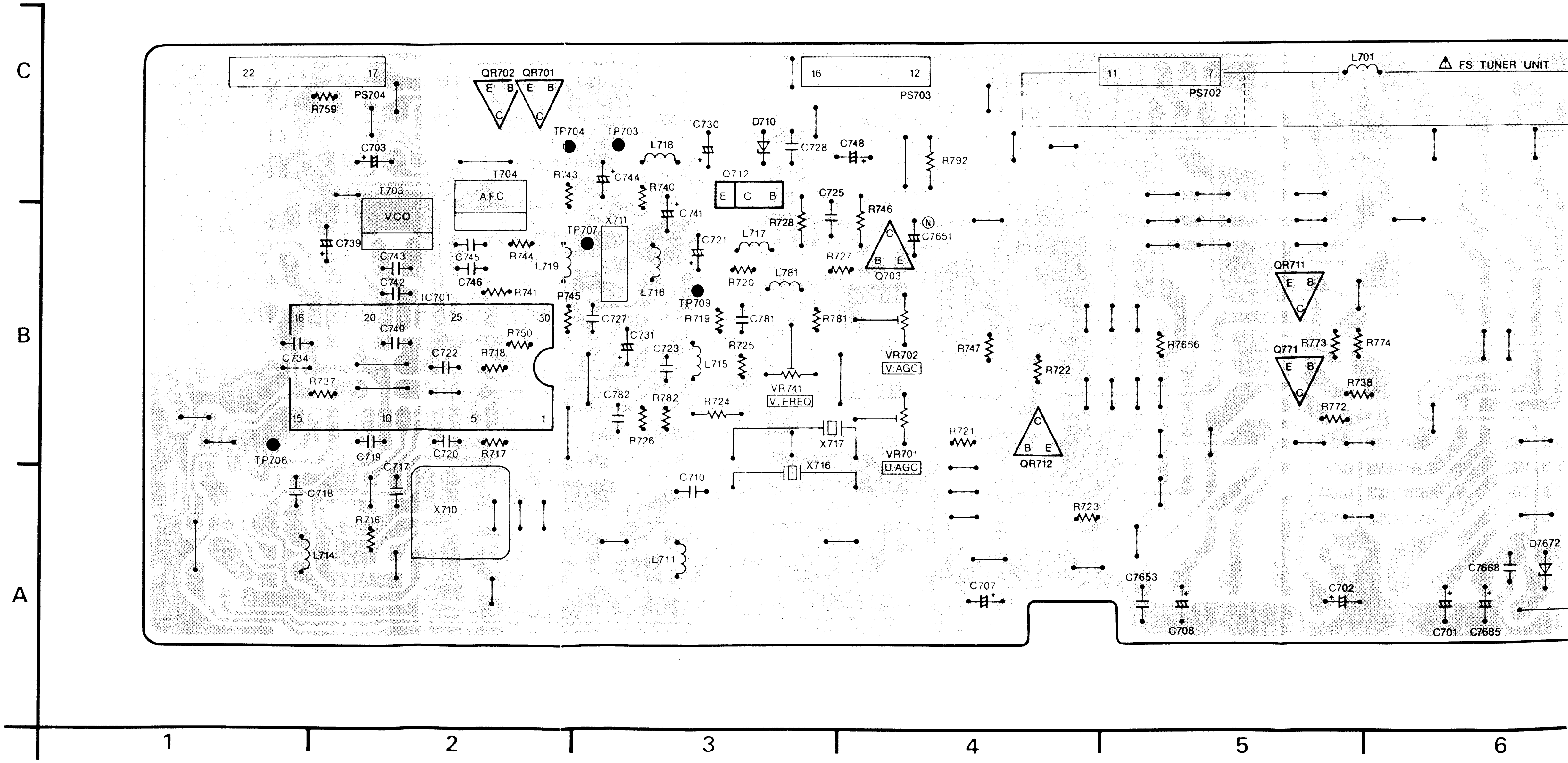
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATI
ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PA

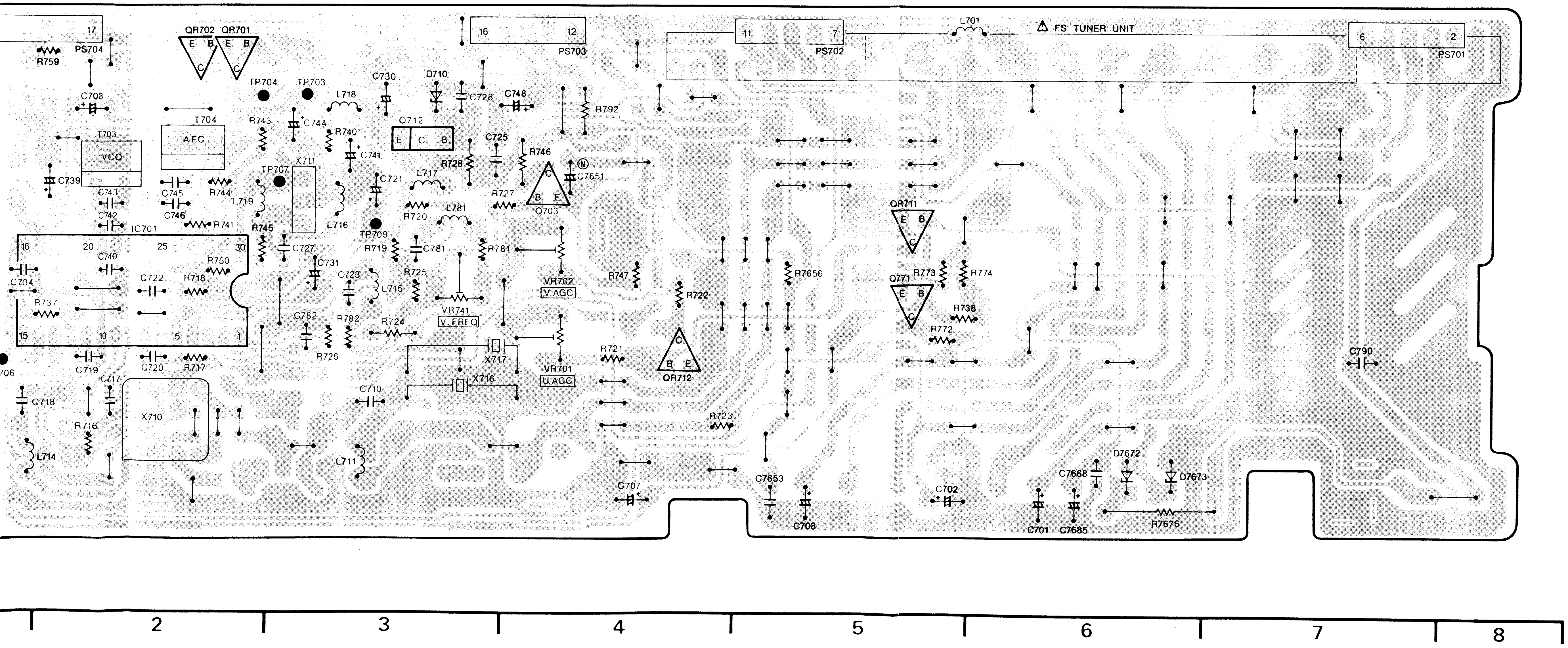
3-23. TV DEMODULATOR PACK C.B.A. (VEP07643E)


L719
12μ
TP707
C727
8P
L716
56μ
3.6
30
X711
EFCS5R5
MW5
(5.5MHz
TRAP)
R743
47
29
0.2
R744
820
R745
330
28
0
R750
1800
27
3.7
R741
5600
C745
68P
T704
EIV5EC
006A1
AFC
DET
26
3.7
TP703
C746
15P
25
4.8
C744
50V0.47
24
R740
47K
T703
EIV5EC013A
VCO
ADJ
23
8.0
C743
27P
22
8.0
C742
3P
TP704
21
9.1
C741
16V10
C740
0.01
20
4.0
C739
50V1
L718
68μ
19
4.5
18
4.2
17
6.2
L717
68μ
16
8.8
C734
0.01
R738
330K
R737
270K
C707
50V0.1

PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
N YOU ORDER A PART, PLEASE REFER TO PARTS LIST.


7
8
C
B
A
1
2
3
4
5
6
22
17
PS704
R759
QR702
QR701
E B
E B
C
C
16
12
PS703
11
7
PS702
L701
⚠ FS TUNER UNIT
TP704
TP703
C703
L718
C730
D710
C728
C748
R792
T704
AFC
T703
VCO
C739
R743
C744
R740
C741
Q712
E C B
C725
R746
R728
R727
C7651
Q703
TP707
X711
C721
L717
L781
R720
C743
C742
C745
C746
R744
L719
R741
IC701
L716
TP709
P745
C727
R719
C781
R781
VR702
V.AGC
16
20
25
30
C740
R750
C734
C722
R718
C731
C723
L715
R725
VR741
V.FREQ
R747
R7656
R722
QR711
Q771
R773
R774
R738
R737
15
10
5
1
C782
R782
R726
R724
X717
VR701
U.AGC
R721
QR712
R772
TP706
C719
C720
R717
C717
C718
X716
C710
R716
X710
L714
L711
R723
C707
C7653
C708
C702
C701
C7685
C7668
D7672

ATOR PACK C.B.A. (VEP07643E)



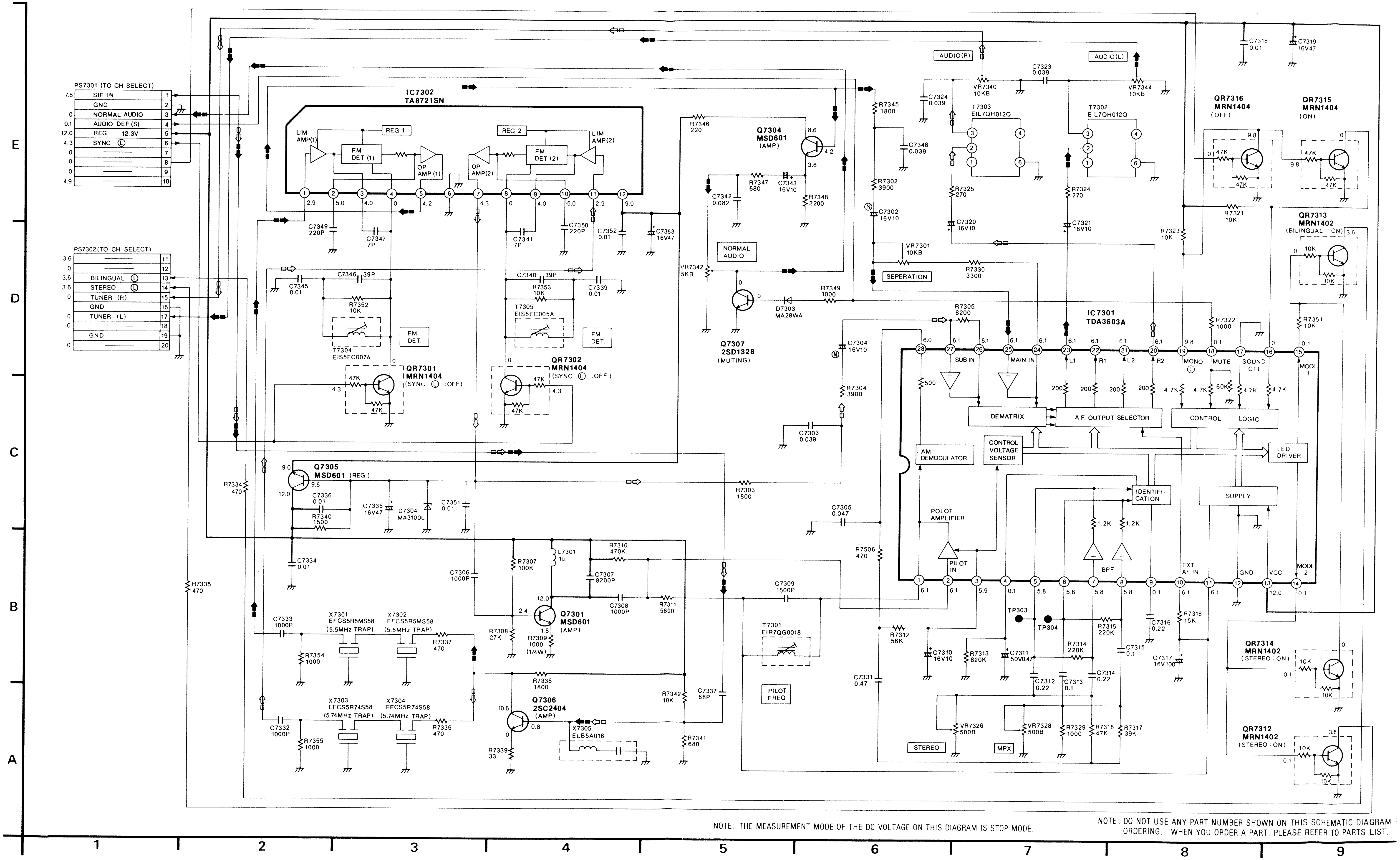
PS704
PS703
PS702
PS701
17
16
12
11
7
6
2
⚠ FS TUNER UNIT
L701
R759
QR702
QR701
E B E B
C C
TP704
TP703
C703
T704
AFC
T703
VCO
C739
C743
C742
C745
C746
R744
R741
IC701
L718
C744
R743
R740
C741
TP707
X711
L719
L716
C730
D710
C728
C748
R792
Q712
E C B
C725
R728
R746
C7651
C721
L717
R727
Q703
C B E
R720
L781
R745
C727
TP709
R719
C781
R781
VR702
V.AGC
C731
C723
L715
R725
VR741
V.FREQ
C782
R782
R724
R726
X717
VR701
U.AGC
X716
C710
C740
C722
R718
R750
C734
R737
C719
C720
R717
C717
C718
R716
X710
L714
L711
R747
R722
R721
QR712
R723
C707
C7653
C708
R7656
QR711
Q771
R773
R774
R738
R772
C702
C701
C7685
C7668
D7672
D7673
R7676
C790
706
2
3
4
5
6
7
8

TV DEMODULATOR PACK C.B.A.	
Transistor	
Q703	B-4
Q712	C-3
Q771	B-5
Transistor & Resistor	
QR701	C-2
QR702	C-2
QR711	B-5
QR712	B-4
Integrated Circuit	
IC701	B-2
Test Point	
TP703	C-3
TP704	C-2
TP706	B-1
TP707	B-3
TP709	B-3
Adjustment	
T703	C-2
T704	C-2
VR701	B-4
VR702	B-4
VR741	B-3
Connector	
PS701	C-8
PS702	C-5
PS703	C-4
PS704	C-2

ADDRESS INFORMATION

3-24. DECODER PACK SCHEMATIC DIAGRAM

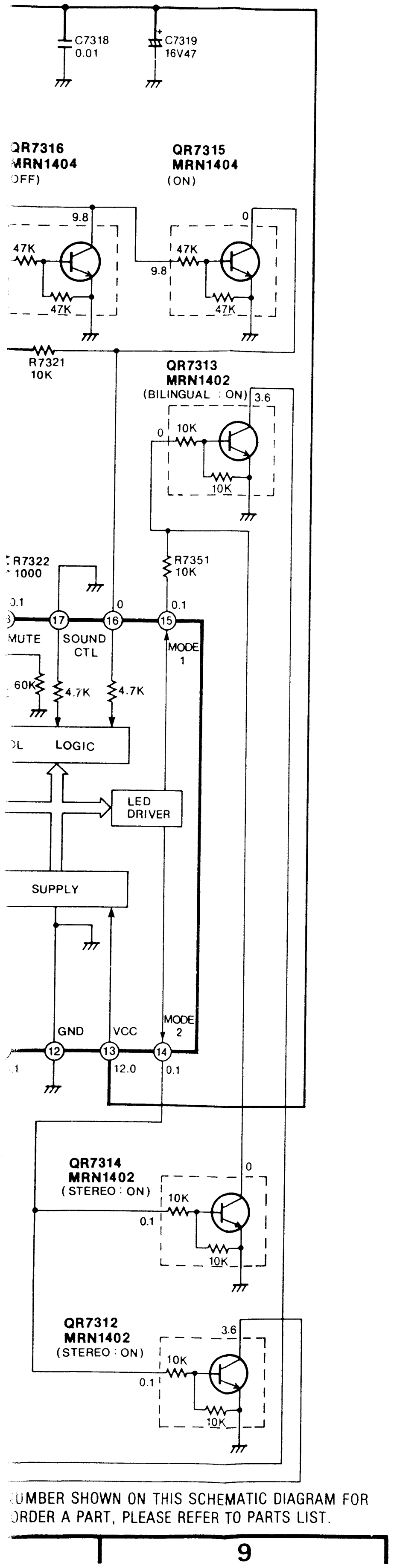
⬅■ AUDIO MAIN SIGNAL PATH ⇦□ AUDIO SUB SIGNAL PATH


PS7301 (TO CH SELECT)
7.8 SIF IN 1
GND 2
0 NORMAL AUDIO 3
0.1 AUDIO DEF.(S) 4
12.0 REG 12.3V 5
4.3 SYNC Ⓛ 6
0 7
0 8
0 9
4.9 10
PS7302 (TO CH SELECT)
3.6 11
0 12
3.6 BILINGUAL Ⓛ 13
3.6 STEREO Ⓛ 14
0 TUNER (R) 15
GND 16
0 TUNER (L) 17
0 18
GND 19
0 20
IC7302
TA8721SN
LIM AMP(1)
FM DET (1)
REG 1
OP AMP (1)
OP AMP(2)
REG 2
FM DET (2)
LIM AMP(2)
2.9
5.0
4.0
0
4.2
4.3
0
4.0
5.0
2.9
9.0
C7349 220P
C7347 7P
C7341 7P
C7350 220P
C7352 0.01
C7353 16V47
C7345 0.01
C7346 39P
R7352 10K
T7304 EIS5EC007A
FM DET.
QR7301 MRN1404 (SYNC Ⓛ : OFF)
47K
47K
C7340 39P
R7353 10K
C7339 0.01
T7305 EIS5EC005A
FM DET
QR7302 MRN1404 (SYNC Ⓛ : OFF)
R7346 220
Q7304 MSD601 (AMP)
8.6
4.2
3.6
C7342 0.082
R7347 680
C7343 16V10
R7348 2200
NORMAL AUDIO
VR7342 5KB
Q7307 2SD1328 (MUTING)
D7303 MA28WA
R7349 1000
C7304 16V10
R7304 3900
C7303 0.039
R7345 1800
C7348 0.039
R7302 3900
C7302 16V10
VR7301 10KB
SEPERATION
R7330 3300
R7305 8200
AUDIO(R)
AUDIO(L)
C7324 0.039
VR7340 10KB
C7323 0.039
VR7344 10KB
T7303 EIL7QH012Q
T7302 EIL7QH012Q
R7325 270
R7324 270
C7320 16V10
C7321 16V10
C7318 0.01
C7319 16V47
QR7316 MRN1404 (OFF)
QR7315 MRN1404 (ON)
R7323 10K
R7321 10K
QR7313 MRN1402 (BILINGUAL : ON)
R7322 1000
R7351 10K
IC7301 TDA3803A
6.0 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 9.8 0.1 0 0 0.1
SUB IN
MAIN IN
L1 R1 L2 R2
MONO Ⓛ
MUTE
SOUND CTL
MODE 1
500
200 200 200 200
4.7K 4.7K 60K 4.7K 4.7K
DEMATRIX
A.F. OUTPUT SELECTOR
CONTROL LOGIC
CONTROL VOLTAGE SENSOR
AM DEMODULATOR
LED DRIVER
IDENTIFI-CATION
SUPPLY
POLOT AMPLIFIER
PILOT IN
1.2K 1.2K
BPF
EXT AF IN
GND
VCC
MODE 2
6.1 6.1 5.9 0.1 5.8 5.8 5.8 5.8 0.1 6.1 6.1 12.0 0.1
Q7305 MSD601 (REG.)
9.0
9.6
12.0
C7336 0.01
C7335 16V47
D7304 MA3100L
C7351 0.01
R7340 1500
R7334 470
C7334 0.01
R7303 1800
C7305 0.047
R7506 470
R7335 470
R7307 100K
L7301 1μ
R7310 470K
C7307 8200P
C7306 1000P
12.0
2.4
1.8
Q7301 MSD601 (AMP)
C7308 1000P
R7311 5600
R7308 27K
R7309 1000 (1/4W)
C7309 1500P
T7301 EIR7QG0018
PILOT FREQ
C7331 0.47
C7333 1000P
R7354 1000
X7301 EFCS5R5MS58 (5.5MHz TRAP)
X7302 EFCS5R5MS58 (5.5MHz TRAP)
R7337 470
C7332 1000P
R7355 1000
X7303 EFCS5R74S58 (5.74MHz TRAP)
X7304 EFCS5R74S58 (5.74MHz TRAP)
R7336 470
R7338 1800
Q7306 2SC2404 (AMP)
10.6
0
0.8
X7305 ELB5A016
R7339 33
R7342 10K
C7337 68P
R7341 680
R7312 56K
C7310 16V10
R7313 820K
C7311 50V0.47
TP303
TP304
R7315 220K
R7314 220K
C7312 0.22
C7313 0.1
C7314 0.22
C7315 0.1
C7316 0.22
C7317 16V100
R7318 15K
VR7326 500B
STEREO
VR7328 500B
R7329 1000
R7316 47K
R7317 39K
MPX
QR7314 MRN1402 (STEREO : ON)
QR7312 MRN1402 (STEREO : ON)
10K
E
D
C
B
A
1
2
3
4
5
6
7
8
9

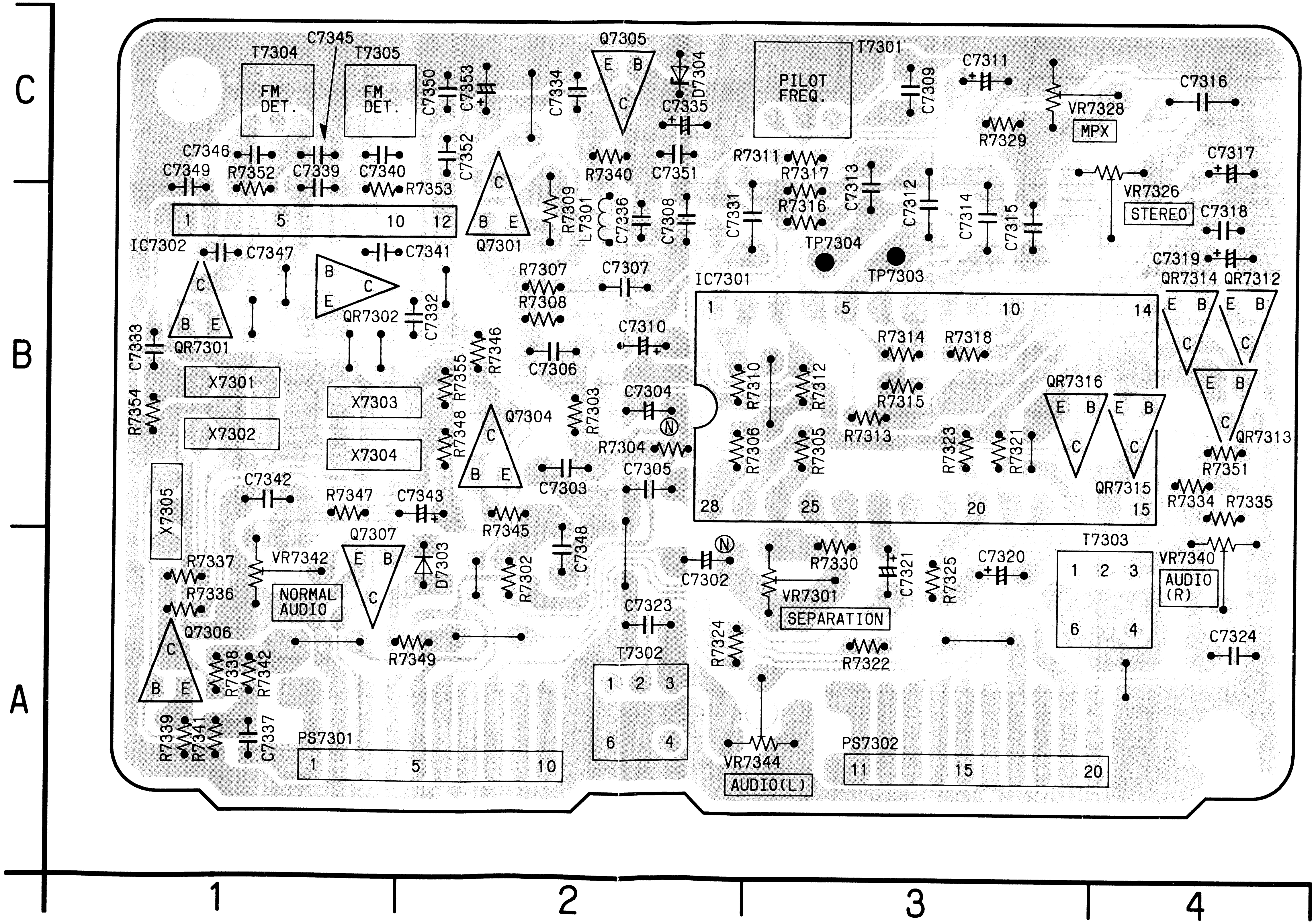
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

3-25. DECODER PACK C.B.A. (VEP07671A)


C7318
0.01
C7319
16V47
QR7316
MRN1404
QR7315
MRN1404
(ON)
9.8
47K
47K
0
R7321
10K
QR7313
MRN1402
(BILINGUAL : ON)
3.6
10K
R7322
1000
R7351
10K
17
16
15
MUTE
SOUND CTL
MODE 1
60K
4.7K
LOGIC
LED DRIVER
SUPPLY
GND
VCC
MODE 2
12
13
14
12.0
0.1
QR7314
MRN1402
(STEREO : ON)
QR7312
MRN1402
(STEREO : ON)
9

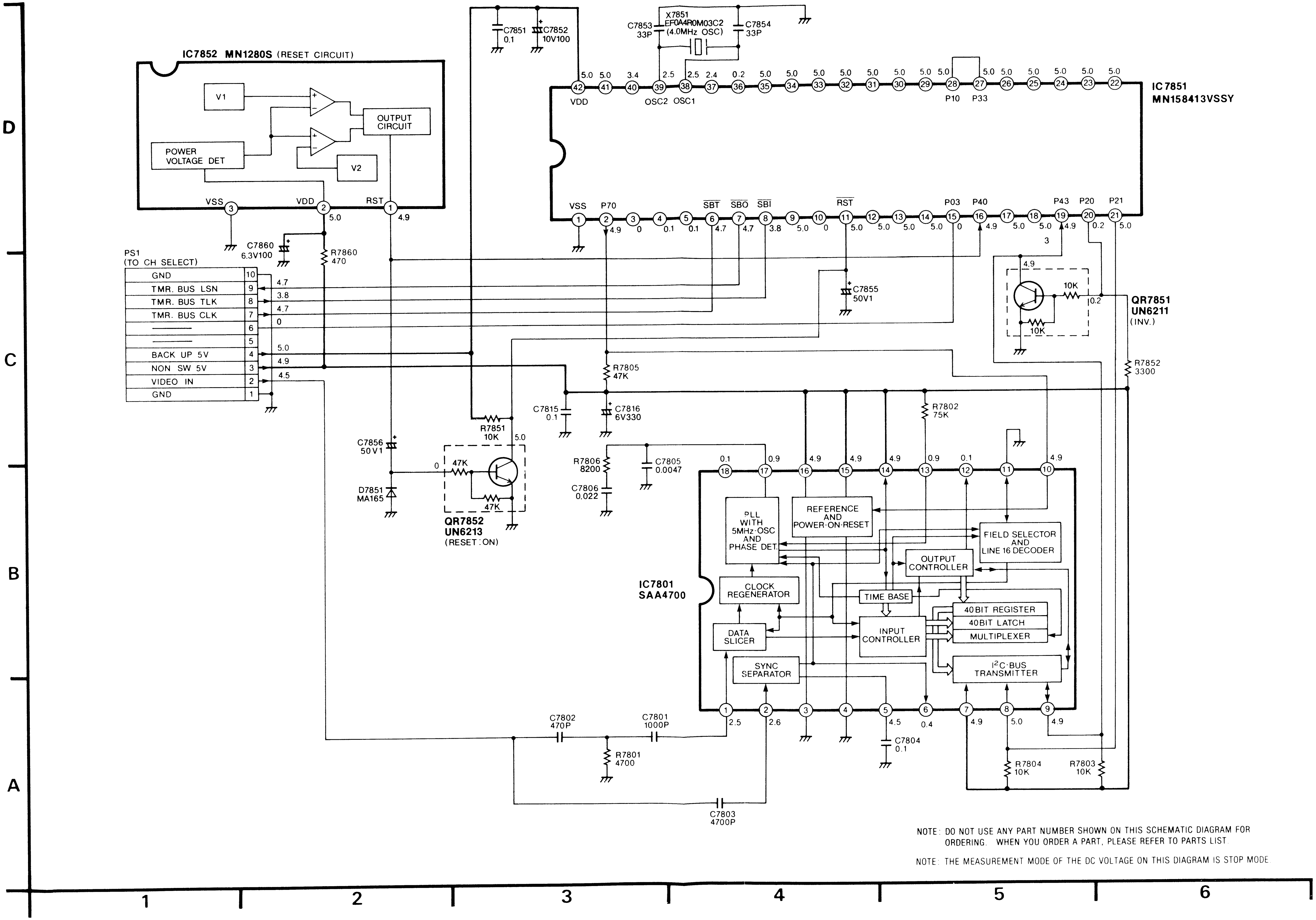
UMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR
ORDER A PART, PLEASE REFER TO PARTS LIST.


C
B
A
1
2
3
4
T7304
C7345
T7305
FM DET.
FM DET.
C7350
C7353
C7334
Q7305
D7304
C7335
PILOT FREQ.
T7301
C7309
C7311
VR7328
R7329
MPX
C7316
C7346
C7349
R7352
C7339
C7340
R7353
C7352
R7340
C7351
R7311
R7317
R7316
C7313
C7331
C7312
C7314
C7315
VR7326
STEREO
C7317
C7318
R7309
L7301
C7336
C7308
IC7302
C7347
C7341
Q7301
TP7304
TP7303
C7319
QR7314
QR7312
QR7301
QR7302
C7332
R7307
R7308
C7307
IC7301
C7333
R7346
R7355
C7310
C7306
R7314
R7318
R7310
R7312
R7315
QR7316
X7301
X7303
X7302
X7304
R7354
R7348
Q7304
R7303
C7304
R7304
R7313
R7306
R7305
R7323
R7321
QR7313
R7351
X7305
C7342
R7347
C7343
R7345
C7303
C7305
QR7315
R7334
R7335
Q7307
VR7342
NORMAL AUDIO
D7303
R7302
C7348
C7302
R7330
VR7301
SEPARATION
C7321
R7325
C7320
T7303
VR7340
AUDIO (R)
R7337
R7336
Q7306
R7349
C7323
R7324
R7322
C7324
R7338
R7342
T7302
R7339
R7341
C7337
PS7301
VR7344
AUDIO(L)
PS7302

DECODER PACK C.B.A.	
Transistor	
Q7301	B-2
Q7304	B-2
Q7305	C-2
Q7306	A-1
Q7307	A-1
Transistor & Resistor	
QR7301	B-1
QR7302	B-1
QR7312	B-4
QR7313	B-4
QR7314	B-4
QR7315	B-4
QR7316	B-3
Integrated Circuit	
IC7301	B-3
IC7302	B-1
Test Point	
TP7303	B-3
TP7304	B-3
Adjustment	
T7301	C-3
T7302	A-2
T7303	A-4
T7304	C-1
T7305	C-1
VR7301	A-3
VR7326	C-4
VR7328	C-3
VR7340	A-4
VR7342	A-1
VR7344	A-3
Connector	
PS7301	A-1
PS7302	A-3

ADDRESS INFORMATION

3-26. VPS PACK SCHEMATIC DIAGRAM

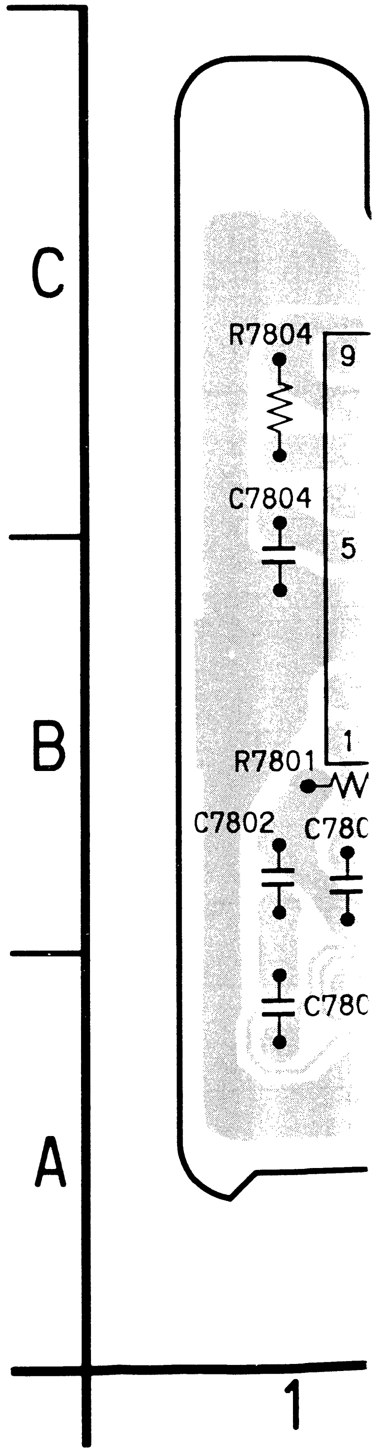

D
C
B
A
1
2
3
4
5
6
IC7852 MN1280S (RESET CIRCUIT)
V1
V2
OUTPUT CIRCUIT
POWER VOLTAGE DET
VSS
VDD
RST
5.0
4.9
C7860 6.3V100
R7860 470
PS1 (TO CH SELECT)
GND
TMR. BUS LSN
TMR. BUS TLK
TMR. BUS CLK
BACK UP 5V
NON SW 5V
VIDEO IN
GND
10
9
8
7
6
5
4
3
2
1
4.7
3.8
4.7
0
5.0
4.9
4.5
C7851 0.1
C7852 10V100
X7851 EF0A4R0M03C2 (4.0MHz OSC)
C7853 33P
C7854 33P
IC7851 MN158413VSSY
VDD
OSC2
OSC1
P10
P33
VSS
P70
SBT
SBO
SBI
RST
P03
P40
P43
P20
P21
C7855 50V1
QR7851 UN6211 (INV.)
10K
10K
R7852 3300
R7805 47K
C7815 0.1
C7816 6V330
R7851 10K
C7856 50V1
D7851 MA165
47K
47K
QR7852 UN6213 (RESET:ON)
R7806 8200
C7805 0.0047
C7806 0.022
R7802 75K
IC7801 SAA4700
PLL WITH 5MHz-OSC AND PHASE DET.
REFERENCE AND POWER-ON-RESET
FIELD SELECTOR AND LINE 16 DECODER
OUTPUT CONTROLLER
CLOCK REGENERATOR
TIME BASE
40BIT REGISTER
40BIT LATCH
MULTIPLEXER
DATA SLICER
INPUT CONTROLLER
SYNC SEPARATOR
I²C-BUS TRANSMITTER
C7802 470P
C7801 1000P
R7801 4700
C7803 4700P
C7804 0.1
R7804 10K
R7803 10K

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

Back Page:
DECODER Section

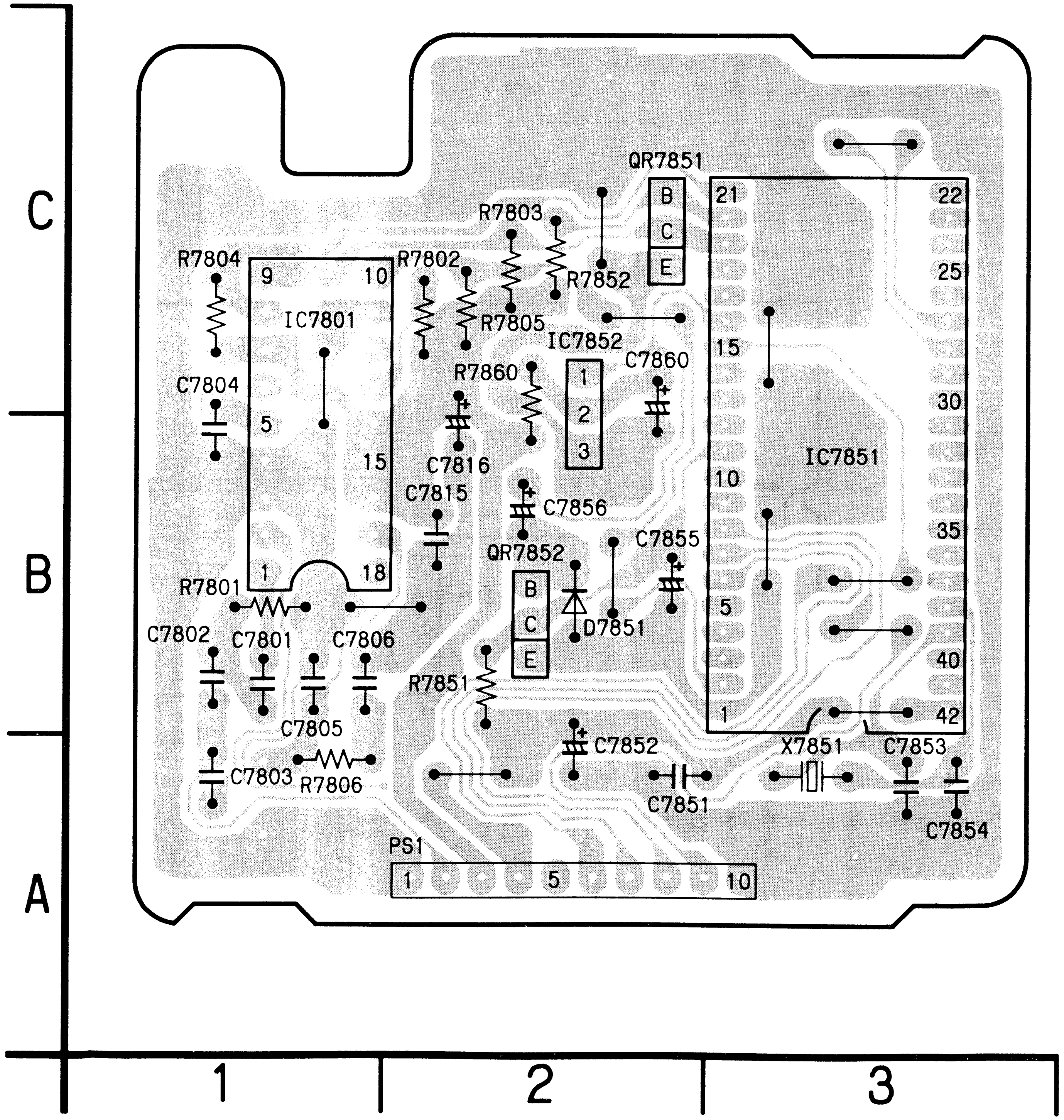
3-27. VPS PACK C.


C
B
A
1
R7804
9
C7804
5
R7801
1
C7802
C780
C780

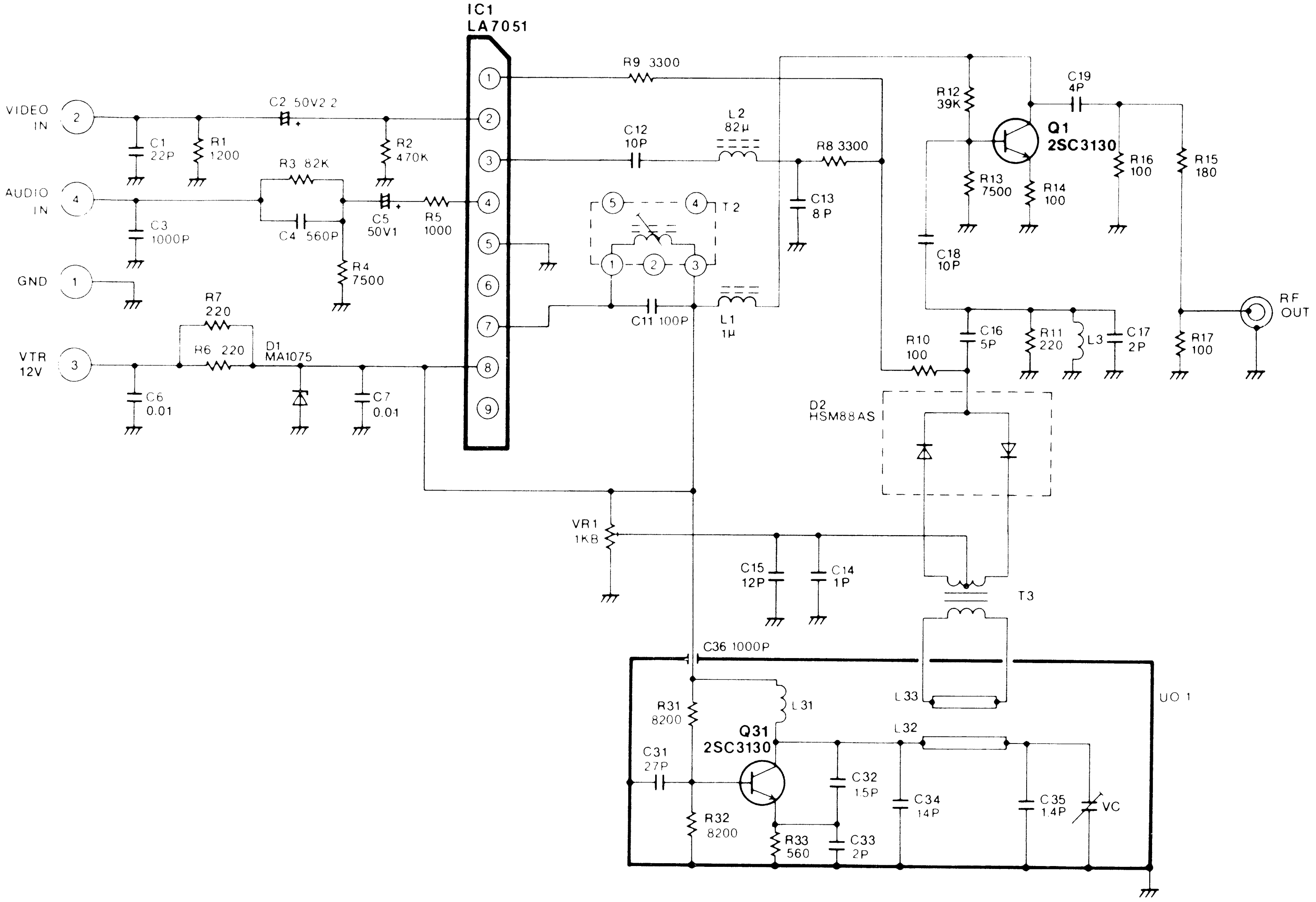
3-27. VPS PACK C.B.A. (VEP07538F)

VPS PACK C.B.A.	
Transistor & Resistor	
QR7851 QR7852	C-2 B-2
Integrated Circuit	
IC7801 IC7851 IC7852	C-1 B-3 C-2
Connector	
PS1	A-2

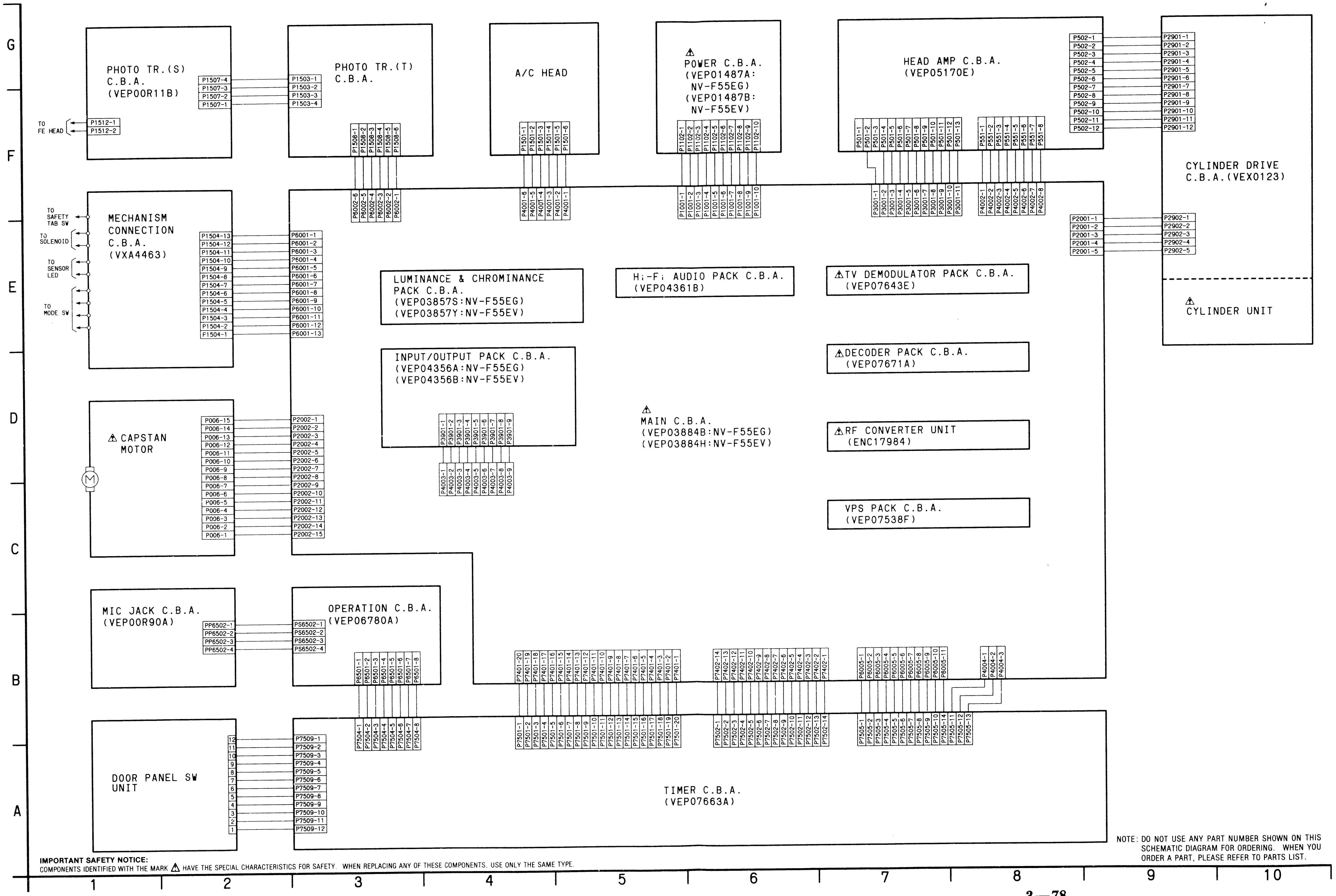
ADDRESS INFORMATION


C
B
A
1
2
3
QR7851
B
C
E
21
22
R7803
R7804
9
10
R7802
25
R7852
IC7801
R7805
IC7852
15
C7860
R7860
1
2
3
C7804
5
30
15
C7816
IC7851
C7815
10
C7856
35
C7855
QR7852
B
C
E
R7801
1
18
D7851
5
C7802
C7801
C7806
40
R7851
C7805
1
42
C7852
X7851
C7853
C7803
R7806
C7851
C7854
PS1
1
5
10

3-28. RF CONVERTER SCHEMATIC DIAGRAM (ENC17984)


IC1
LA7051
VIDEO IN
2
AUDIO IN
4
GND
1
VTR 12V
3
C1 22P
R1 1200
C2 50V2 2
R2 470K
R3 82K
C3 1000P
C4 560P
C5 50V1
R5 1000
R4 7500
R7 220
R6 220
D1 MA1075
C6 0.01
C7 0.01
1
2
3
4
5
6
7
8
9
R9 3300
C12 10P
L2 82μ
R8 3300
C13 8P
T2
5
4
1
2
3
C11 100P
L1 1μ
R12 39K
C19 4P
Q1 2SC3130
R13 7500
R14 100
R16 100
R15 180
C18 10P
R10 100
C16 5P
R11 220
L3
C17 2P
R17 100
RF OUT
D2 HSM88AS
VR1 1KB
C15 12P
C14 1P
T3
C36 1000P
L33
UO 1
R31 8200
L31
Q31 2SC3130
L32
C31 27P
C32 1.5P
C34 14P
C35 1.4P
VC
R32 8200
R33 560
C33 2P

3-29. INTERCONNECTION SCHEMATIC DIAGRAM


G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
PHOTO TR.(S) C.B.A. (VEP00R11B)
P1507-4 P1507-3 P1507-2 P1507-1
TO FE HEAD
P1512-1 P1512-2
PHOTO TR.(T) C.B.A.
P1503-1 P1503-2 P1503-3 P1503-4
P1508-1 P1508-2 P1508-3 P1508-4 P1508-5 P1508-6
P6002-6 P6002-5 P6002-4 P6002-3 P6002-2 P6002-1
A/C HEAD
P1501-1 P1501-2 P1501-3 P1501-4 P1501-5 P1501-6
P4001-6 P4001-5 P4001-4 P4001-3 P4001-2 P4001-1
⚠ POWER C.B.A. (VEP01487A: NV-F55EG) (VEP01487B: NV-F55EV)
P1102-1 P1102-2 P1102-3 P1102-4 P1102-5 P1102-6 P1102-7 P1102-8 P1102-9 P1102-10
P1001-1 P1001-2 P1001-3 P1001-4 P1001-5 P1001-6 P1001-7 P1001-8 P1001-9 P1001-10
HEAD AMP C.B.A. (VEP05170E)
P502-1 P502-2 P502-3 P502-4 P502-5 P502-6 P502-7 P502-8 P502-9 P502-10 P502-11 P502-12
P501-1 P501-2 P501-3 P501-4 P501-5 P501-6 P501-7 P501-8 P501-9 P501-10 P501-11 P501-12 P501-13
P551-1 P551-2 P551-3 P551-4 P551-5 P551-6 P551-7 P551-8
P3001-1 P3001-2 P3001-3 P3001-4 P3001-5 P3001-6 P3001-7 P3001-8 P3001-9 P3001-10 P3001-11
P4002-1 P4002-2 P4002-3 P4002-4 P4002-5 P4002-6 P4002-7 P4002-8
P2901-1 P2901-2 P2901-3 P2901-4 P2901-5 P2901-6 P2901-7 P2901-8 P2901-9 P2901-10 P2901-11 P2901-12
CYLINDER DRIVE C.B.A.(VEX0123)
P2001-1 P2001-2 P2001-3 P2001-4 P2001-5
P2902-1 P2902-2 P2902-3 P2902-4 P2902-5
⚠ CYLINDER UNIT
TO SAFETY TAB SW
TO SOLENOID
TO SENSOR LED
TO MODE SW
MECHANISM CONNECTION C.B.A. (VXA4463)
P1504-13 P1504-12 P1504-11 P1504-10 P1504-9 P1504-8 P1504-7 P1504-6 P1504-5 P1504-4 P1504-3 P1504-2 F1504-1
P6001-1 P6001-2 P6001-3 P6001-4 P6001-5 P6001-6 P6001-7 P6001-8 P6001-9 P6001-10 P6001-11 P6001-12 P6001-13
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03857S:NV-F55EG) (VEP03857Y:NV-F55EV)
Hi-Fi AUDIO PACK C.B.A. (VEP04361B)
⚠TV DEMODULATOR PACK C.B.A. (VEP07643E)
INPUT/OUTPUT PACK C.B.A. (VEP04356A:NV-F55EG) (VEP04356B:NV-F55EV)
P3901-1 P3901-2 P3901-3 P3901-4 P3901-5 P3901-6 P3901-7 P3901-8 P3901-9
P4003-1 P4003-2 P4003-3 P4003-4 P4003-5 P4003-6 P4003-7 P4003-8 P4003-9
⚠DECODER PACK C.B.A. (VEP07671A)
⚠ MAIN C.B.A. (VEP03884B:NV-F55EG) (VEP03884H:NV-F55EV)
⚠RF CONVERTER UNIT (ENC17984)
VPS PACK C.B.A. (VEP07538F)
⚠ CAPSTAN MOTOR
M
P006-15 P006-14 P006-13 P006-12 P006-11 P006-10 P006-9 P006-8 P006-7 P006-6 P006-5 P006-4 P006-3 P006-2 P006-1
P2002-1 P2002-2 P2002-3 P2002-4 P2002-5 P2002-6 P2002-7 P2002-8 P2002-9 P2002-10 P2002-11 P2002-12 P2002-13 P2002-14 P2002-15
MIC JACK C.B.A. (VEP00R90A)
PP6502-1 PP6502-2 PP6502-3 PP6502-4
OPERATION C.B.A. (VEP06780A)
PS6502-1 PS6502-2 PS6502-3 PS6502-4
P6501-1 P6501-2 P6501-3 P6501-4 P6501-5 P6501-6 P6501-7 P6501-8
P7504-1 P7504-2 P7504-3 P7504-4 P7504-5 P7504-6 P7504-7 P7504-8
P7401-20 P7401-19 P7401-18 P7401-17 P7401-16 P7401-15 P7401-14 P7401-13 P7401-12 P7401-11 P7401-10 P7401-9 P7401-8 P7401-7 P7401-6 P7401-5 P7401-4 P7401-3 P7401-2 P7401-1
P7501-1 P7501-2 P7501-3 P7501-4 P7501-5 P7501-6 P7501-7 P7501-8 P7501-9 P7501-10 P7501-11 P7501-12 P7501-13 P7501-14 P7501-15 P7501-16 P7501-17 P7501-18 P7501-19 P7501-20
P7402-14 P7402-13 P7402-12 P7402-11 P7402-10 P7402-9 P7402-8 P7402-7 P7402-6 P7402-5 P7402-4 P7402-3 P7402-2 P7402-1
P7502-1 P7502-2 P7502-3 P7502-4 P7502-5 P7502-6 P7502-7 P7502-8 P7502-9 P7502-10 P7502-11 P7502-12 P7502-13 P7502-14
P6005-1 P6005-2 P6005-3 P6005-4 P6005-5 P6005-6 P6005-7 P6005-8 P6005-9 P6005-10 P6005-11
P4004-1 P4004-2 P4004-3
P7505-1 P7505-2 P7505-3 P7505-4 P7505-5 P7505-6 P7505-7 P7505-8 P7505-9 P7505-10 P7505-14 P7505-11 P7505-12 P7505-13
DOOR PANEL SW UNIT
12 11 10 9 8 7 6 5 4 3 2 1
P7509-1 P7509-2 P7509-3 P7509-4 P7509-5 P7509-6 P7509-7 P7509-8 P7509-9 P7509-10 P7509-11 P7509-12
TIMER C.B.A. (VEP07663A)

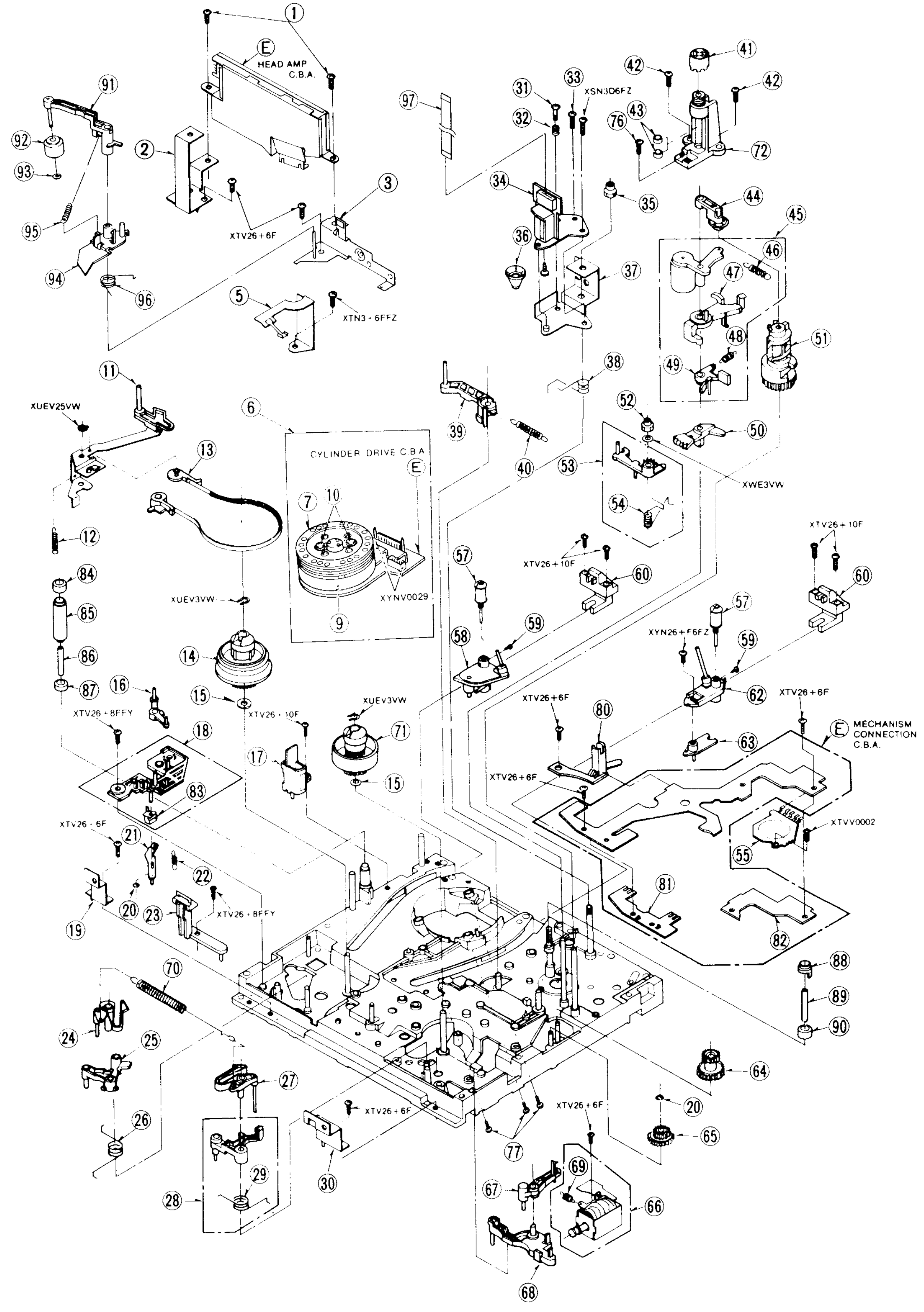
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

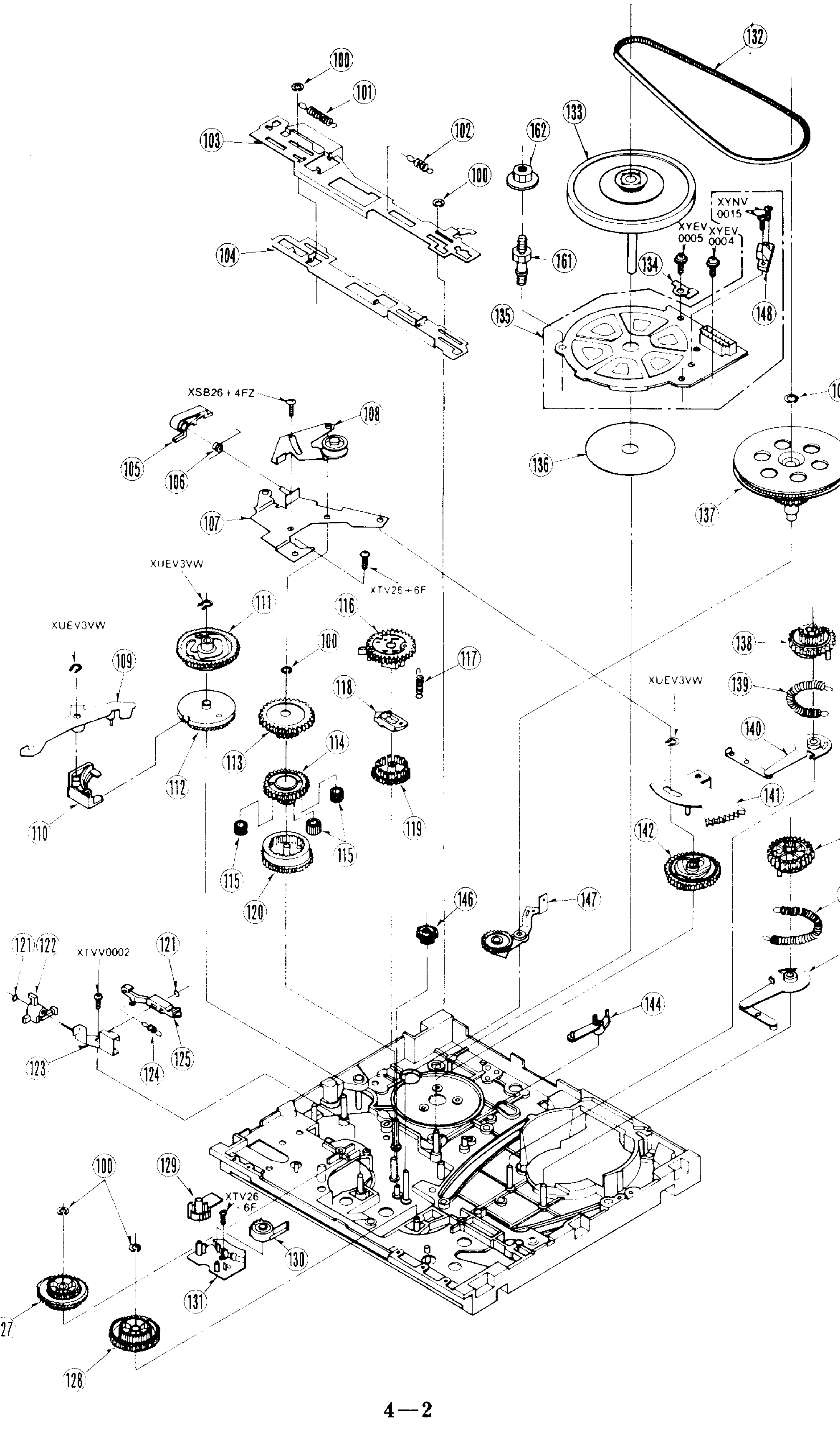
SECTION 4

EXPLODED VIEWS & PARTS LIST

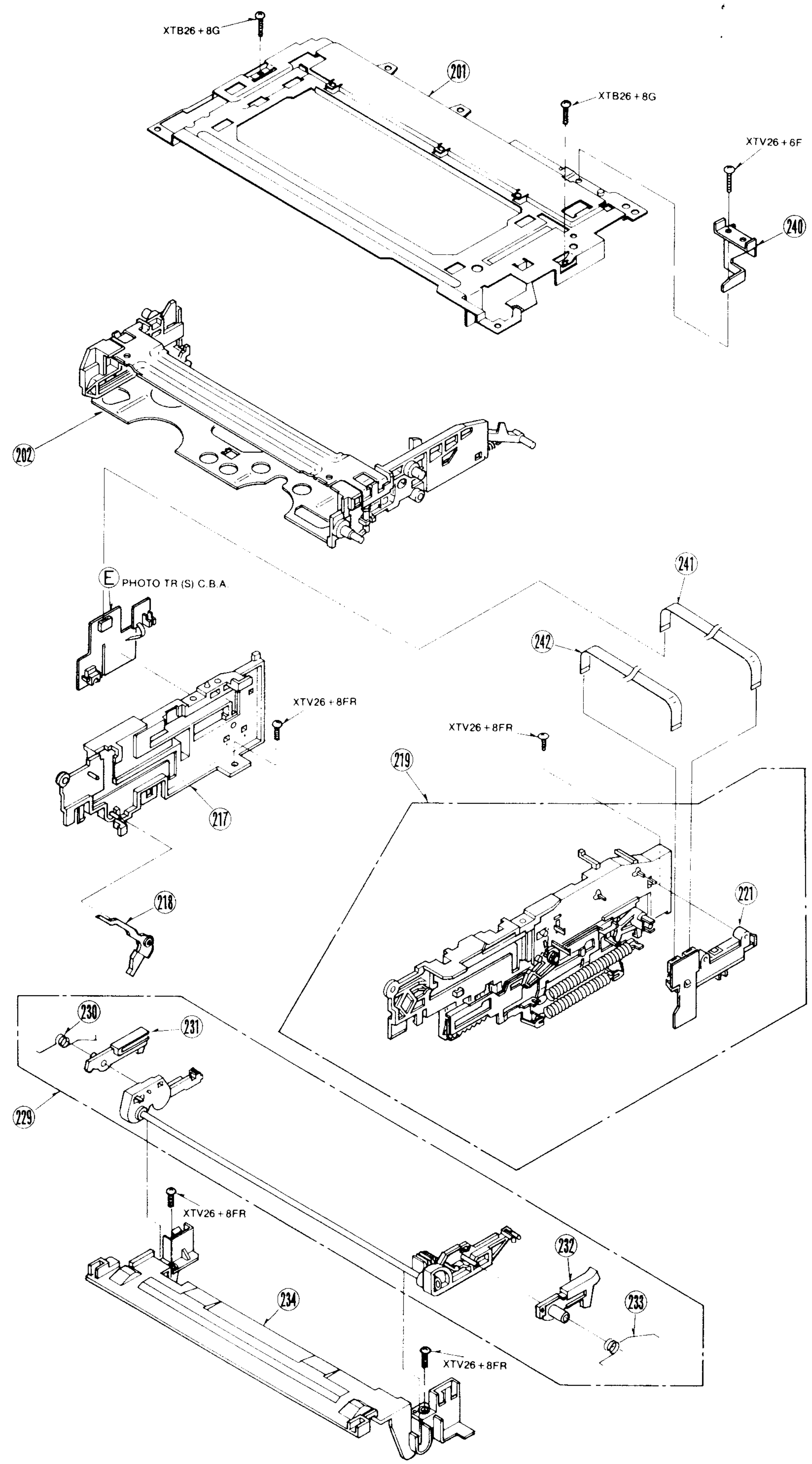
4-1. EXPLODED VIEW ❶ CHASSIS PARTS SECTION (1)


①
Ⓔ HEAD AMP C.B.A.
②
③
XTV26 + 6F
⑤
XTN3 · 6FFZ
(91)
(92)
(93)
(95)
(94)
(96)
(97)
(31)
(32)
(33)
XSN3D6FZ
(34)
(35)
(36)
(37)
(38)
(39)
(40)
(41)
(42)
(42)
(43)
(76)
(72)
(44)
(45)
(46)
(47)
(48)
(49)
(50)
(51)
(52)
(53)
(54)
XWE3VW
⑪
XUEV25VW
⑫
⑬
⑥
CYLINDER DRIVE C.B.A Ⓔ
⑦
⑩
⑨
XYNV0029
XUEV3VW
⑭
⑮
(84)
(85)
(86)
(87)
⑯
XTV26 · 8FFY
⑱
(83)
XTV26 · 10F
⑰
XUEV3VW
(71)
⑮
(57)
XTV26 + 10F
(60)
(58)
(59)
XTV26 + 10F
(60)
(57)
XYN26 + F6FZ
(59)
(62)
XTV26 + 6F
(63)
XTV26 + 6F
(80)
XTV26 + 6F
Ⓔ MECHANISM CONNECTION C.B.A.
XTVV0002
(55)
(81)
(82)
XTV26 · 6F
㉑
⑳
㉒
XTV26 · 8FFY
㉓
⑲
(70)
㉔
㉕
㉖
㉗
㉘
㉙
㉚
XTV26 + 6F
(77)
XTV26 + 6F
(88)
(89)
(90)
(64)
⑳
(65)
(67)
(69)
(66)
(68)

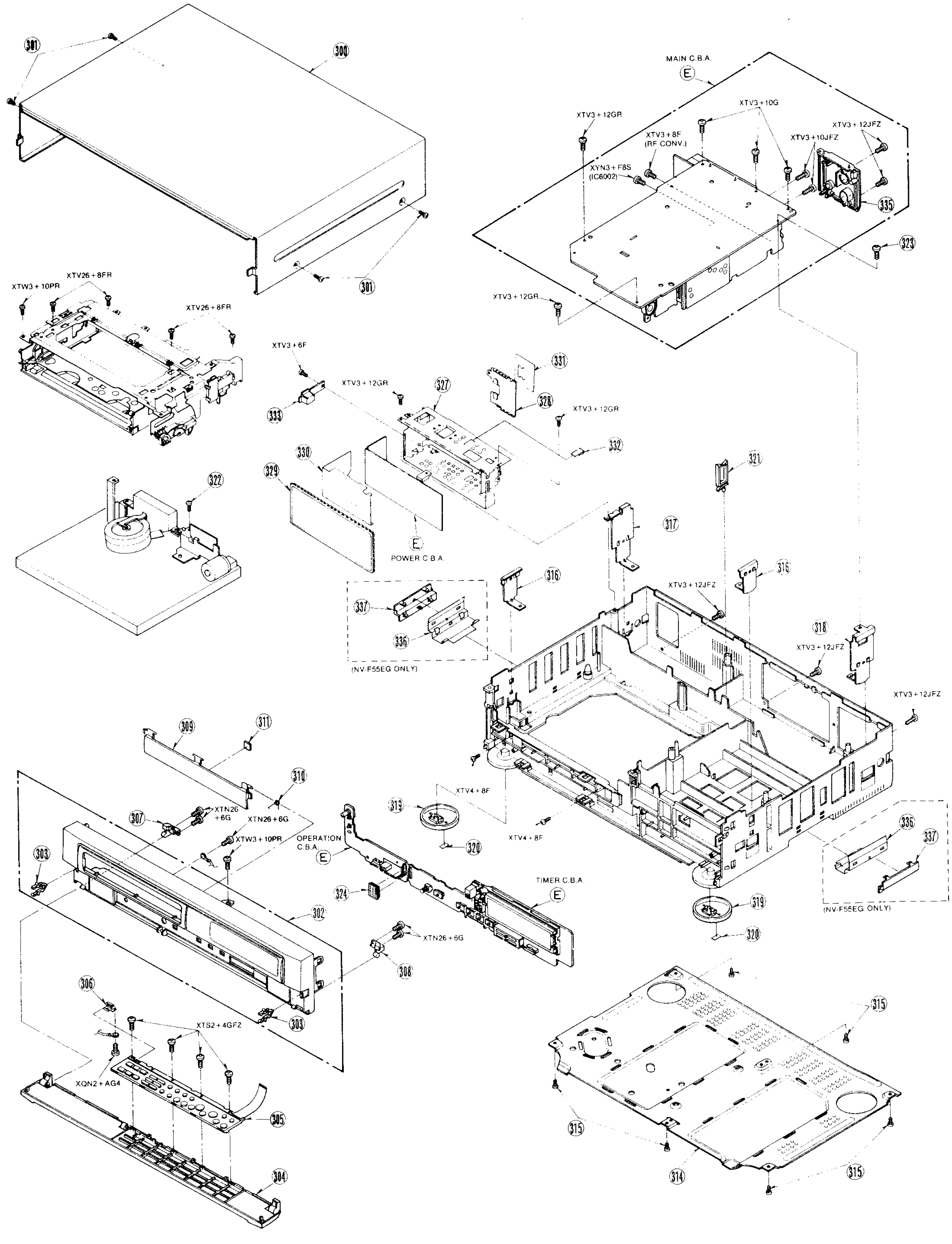
❷ CHASSIS PARTS SECTION (2)


132
100
101
102
103
133
162
100
XYNV 0015
XYEV 0005
XYEV 0004
104
161
134
135
148
XSB26 + 4FZ
108
100
105
106
136
137
107
XUEV3VW
XTV26 + 6F
111
116
XUEV3VW
100
117
138
109
118
XUEV3VW
139
140
113
114
112
119
141
110
115
115
142
143
120
146
147
149
121
122
XTVV0002
121
145
144
123
124
125
100
129
XTV26 + 6F
130
131
127
128

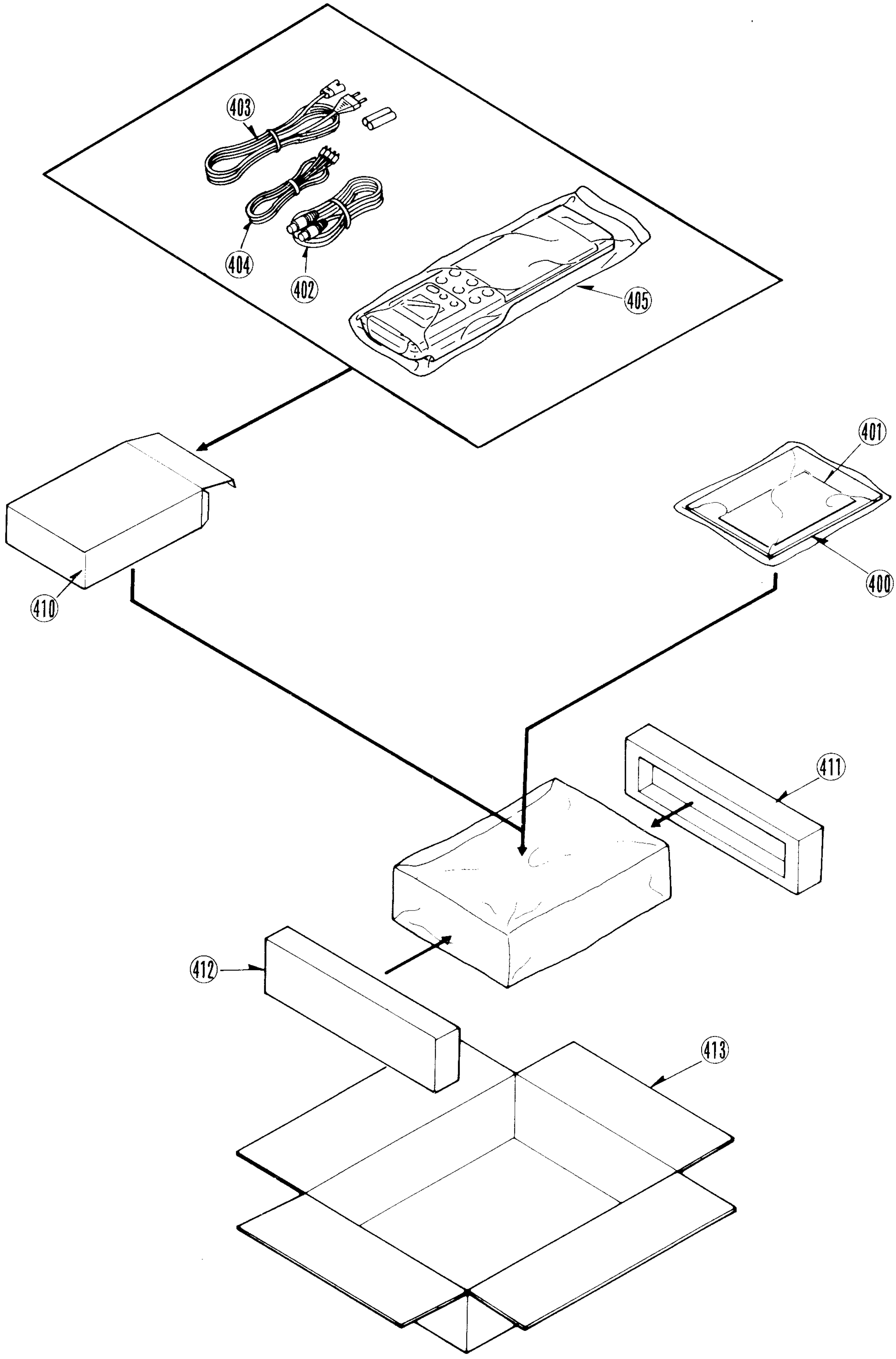
❸ CASSETTE UP MECHANISM SECTION


XTB26 + 8G
201
XTB26 + 8G
XTV26 + 6F
240
202
E
PHOTO TR (S) C.B.A.
241
242
XTV26 + 8FR
XTV26 + 8FR
219
217
221
218
230
231
229
XTV26 + 8FR
232
233
234
XTV26 + 8FR

❹ CASING PARTS SECTION


301
300
301
301
MAIN C.B.A.
E
XTV3+12GR
XTV3+10G
XTV3+12JFZ
XTV3+8F
(RF CONV.)
XTV3+10JFZ
XYN3+F8S
(IC6002)
335
323
XTV3+12GR
XTW3+10PR
XTV26+8FR
XTV26+8FR
XTV3+6F
XTV3+12GR
327
331
328
XTV3+12GR
333
332
330
329
E
POWER C.B.A.
322
321
317
316
316
337
336
(NV-F55EG ONLY)
XTV3+12JFZ
318
XTV3+12JFZ
XTV3+12JFZ
309
311
310
307
XTN26
+6G
XTN26+6G
XTW3+10PR
303
OPERATION
C.B.A.
E
319
XTV4+8F
320
XTV4+8F
324
TIMER C.B.A.
E
302
XTN26+6G
308
336
337
(NV-F55EG ONLY)
319
320
306
XTS2+4GFZ
303
XQN2+AG4
305
304
315
315
314
315

❺ PACKING PARTS SECTION


403
404
402
405
401
410
400
411
412
413

4-2. MECHANICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VHD0418	HEAD AMP SET SCREW	2	
2(1)		VMA6897	HEAD AMP MOUNT ANGLE (L)	1	
3(1)		VXA4546	HEAD AMP MOUNT ANGLE (R)	1	
			UNIT		
5(1)		VXA2702	EARTH PLATE UNIT	1	
6(1)		VEG0936	CYLINDER UNIT	1	<!>
7(1)		VEH0548	UPPER CYLINDER UNIT	1	<!>
9(1)		VSC2188	CYLINDER SHIELD PLATE	1	
10(1)		VHD0553	UPPER CYLINDER SET SCREW	2	
11(1)		VXL1495	TENSION ARM (1) UNIT	1	
12(1)		VMB1563	TENSION SPRING	1	
13(1)		VXZ0267	TENSION BAND UNIT	1	
14(1)		VXR0185	SUPPLY REEL TABLE UNIT	1	
15(1)		VMX1171	REEL WASHER (0.5mm)	2	
15(1)		VMX1239	REEL WASHER (0.3mm)	2	
15(1)		VMX1238	REEL WASHER (0.2mm)	2	
16(1).		VXL1496	TENSION RELEASE ARM(A)UNIT	1	
17(1)		VBS0038	FE HEAD	1	
18(1)		VXA2705	TENSION ARM BASE (1) UNIT	1	
19(1)		VMA6895	MOUNT ANGLE (L)	1	
20(1)		VMX1079	CUT WASHER	2	
21(1)		VXL1497	TENSION RELEASE ARM(B)UNIT	1	
22(1)		VMB1582	TENSION RELEASE SPRING	1	
23(1)		VES0489	SAFETY SW	1	
24(1)		VXZ0259	SUPPLY MAIN BRAKE UNIT	1	
25(1)		VXZ0274	SUPPLY SOFT BRAKE(1)UNIT	1	
26(1)		VMB1564	SUPPLY SOFT BRAKE SPRING	1	
27(1)		VXZ0262	TAKE UP MAIN BRAKE UNIT	1	
28(1)		VXZ0221	TAKE UP SOFT BRAKE UNIT	1	
29(1)		VMB1561	TAKE UP SOFT BRAKE SPRING	1	
30(1)		VMA6896	MOUNT ANGLE (R)	1	
31(1)		VHD0322	ADJUST SCREW	1	
32(1)		VMB1251	ADJUST SPRING	1	
33(1)		VHD0089B	AZIMUTH ADJUST SCREW	1	
34(1)		VED0160	A/C HEAD (1) UNIT	1	
35(1)		VHN0063	M4 NYLON NUT	1	
36(1)		VHN0110	ADJUST NUT	1	
37(1)		VMA7831	HEAD BASE	1	
38(1)		VMB1567	A/C HEAD SPRING	1	
39(1)		VXL1857	SUB LOADING ARM (1) UNIT	1	
40(1)		VMB1566	SUB POST SPRING	1	
41(1)		VXQ0006	THRUST SCREW UNIT	1	
42(1)		VHD0317	HOUSING SCREW	2	
43(1)		VMX1033	OIL SEAL	2	
44(1)		VMX1353	PINCH CAM CAP	1	
45(1)		VXL1858	PRESSURE ROLLER UNIT	1	
46(1)		VMB1941	PIN PRESSURE SPRING	1	
47(1)		VML2232	PINCH PRESSURE ARM	1	
48(1)		VMB1569	PINCH PRESSURE ARM RELEASE	1	
			SPRING		
49(1)		VML1874	PINCH LIFT ARM	1	
50(1)		VDG0597	P5 PULL OUT SECTOR GEAR	1	
51(1)		VDG0421	PINCH CAM	1	
52(1)		VHD0045	M3 NYLON NUT	1	
53(1)		VXL2027	P5 UNIT	1	
54(1)		VMB2718	P5 SPRING	1	
55(1)		VSS0175	MODE SW	1	
57(1)		VXP0863	ROLLER POST UNIT	2	
58(1)		VXA4106	INCLINED BASE (S)(1)UNIT	1	
59(1)		VHD0133	ROLLER POST SCREW	2	
60(1)		VMD0910	POST STOPPER	2	
62(1)		VXA3876	INCLINED BASE(T)(1)UNIT	1	
63(1)		VXA2687	INCLINED ADJUST PLATE UNIT	1	
64(1)		VDG0483	PINCH SPEED DOWN GEAR	1	
65(1)		VDG0664	CONNECTION GEAR	1	
66(1)		VXA3735	SOLENOID UNIT	1	
67(1)		VXA2692	KICK ROD UNIT	1	
68(1)		VML1849	SOLENOID LEVER	1	
69(1)		VMB1553	KICK ROD SPRING	1	
70(1)		VMB2012	MAIN BRAKE SPRING	1	
71(1)		VXR0188	TAKE UP REEL TABLE UNIT	1	
72(1)		VXD0101	HOUSING UNIT	1	
76(1)		VHD0374	HOUSING SCREW	1	
77(1)		VHD0342	CYLINDER SCREW	3	
80(1)		VXA3520	LED HOLDER UNIT	1	
81(1)		VMA7829	REINFORCEMENT PLATE (F)	1	
82(1)		VMA8468	REINFORCEMENT PLATE (R)	1	
83(1)		VMB1733	LEAF SPRING	1	
84(1)		VMX1088	SUPPLY UPPER LIMITER	1	
85(1)		VDP1072	SUPPLY ROLLER	1	
86(1)		VMX1581	P1 COLLAR	1	
87(1)		VMX1533	SUPPLY ROLLER LIMITER	1	
88(1)		VMX1544	P4 UPPER LIMITER	1	
89(1)		VMX1568	P4 SLEEVE	1	
90(1)		VMX1534	P4 LOWER LIMITER	1	
91(1)		VXL2086	CLEANER ARM (2) UNIT	1	
92(1)		VXP1341	CLEANER ROLLER UNIT	1	
93(1)		VMX1061	SNAP WASHER A	1	
94(1)		VML2510	CLEANER ARM B	1	
95(1)		VMB2263	CLEANER ARM SPRING A	1	
96(1)		VMB2264	CLEANER ARM SPRING B	1	
97(1)		VWJ0506	FLEXIBLE CADE	1	P4001-P1501(6P)
100(2)		VMX1079	CUT WASHER	6	
101(2)		VMB1583	TAKE UP SOFT BRAKE RELEASE	1	
			ARM SPRING		
102(2)		VMB1560	MAIN LEVER SPRING	1	
103(2)		VXA3509	MAIN LEVER (1) UNIT	1	
104(2)		VMM0215	SUB LEVER	1	
105(2)		VXL2088	SS BRAKE ARM UNIT	1	
106(2)		VMB1588	SS BRAKE SPRING	1	
107(2)		VXA3512	SS BRAKE BASE (1) UNIT	1	
108(2)		VXA3516	TENSION ROLLER UNIT	1	
109(2)		VXL1632	CAM FOLLOWER ARM UNIT	1	
110(2)		VML1861	DETENT ARM	1	
111(2)		VDG0574	MAIN CAM GEAR	1	
112(2)		VDG0343	SUB CAM GEAR	1	
113(2)		VDG0348	CENTRE GEAR	1	
114(2)		VDG0422	RETAINER GEAR	1	
115(2)		VDG0345	PLANET GEAR	3	
116(2)		VDG0547	CLUTCH DISK	1	
117(2)		VMB1558	CLUTCH SPRING	1	
118(2)		VDG0350	LOCK SLIDE GEAR	1	
119(2)		VDG0335	DRIVE DISK	1	
120(2)		VDG0342	RING GEAR	1	
121(2)		VMX0967	CUT WASHER	2	
122(2)		VML1859	CHANGE LEVER	1	
123(2)		VXA2672	RELEASE LEVER (1) UNIT	1	
124(2)		VMB1557	RELEASE SPRING	1	
125(2)		VML1860	RELEASE LEVER	1	
127(2)		VXP1002	TAKE UP REEL GEAR UNIT	1	
128(2)		VXP0981	SUPPLY REEL GEAR UNIT	1	
129(2)		VML1858	RETURN LEVER (R)	1	
130(2)		VML1857	RETURN LEVER (L)	1	
131(2)		VMD0913	STOPPER BASE	1	
132(2)		VDV0169	TIMING BELT	1	
133(2)		VXP1113	ROTOR UNIT	1	
134(2)		VMA7941	ROTOR STOPPER	1	
135(2)		VEK4097	STATOR UNIT	1	<!>
136(2)		VMA6847	SUB PLATE	1	
137(2)		VXP0917	CENTRE PULLEY UNIT	1	
138(2)		VDG0564	LOADING GEAR (T)	1	
139(2)		VMB1555	LOADING SPRING (T)	1	
140(2)		VXL1489	LOADING ARM (T)(1) UNIT	1	
141(2)		VXA3515	SECTOR GEAR UNIT	1	
142(2)		VDG0448	LOADING CAM GEAR	1	
143(2)		VDG0419	LOADING GEAR (S)	1	
144(2)		VML1855	PLAY CONTROL ARM	1	
145(2)		VXL1487	LOADING ARM (S)(1) UNIT	1	
146(2)		VDG0546	INTERMEDIATE GEAR	1	
147(2)		VXL1861	PLAY ARM UNIT	1	
148(2)		VBK0048	FG HEAD	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
149(2)		VMB1746	LOADING SPRING(S)	1	
161(2)		VHD0431	STATOR SPACER SCREW	1	
162(2)		VHN0102	STATOR NUT	1	
201(3)		VMA7223	TOP PLATE UNIT	1	
202(3)		VXA3840	CASSETTE HOLDER UNIT	1	
217(3)		VMD1890	SIDE PLATE (L)	1	
218(3)		VML2615	OPENER LEVER	1	
219(3)		VXA4468	SIDE PLATE (R) UNIT	1	
221(3)		VXA4469	SLIDE SW UNIT	1	
229(3)		VXP0987	MAIN SHAFT UNIT	1	
230(3)		VMB1836	SUB WIPER SPRING (L)	1	
231(3)		VML1878	SUB WIPER ARM (L)	1	
232(3)		VML1879	SUB WIPER ARM (R)	1	
233(3)		VMB1837	SUB WIPER SPRING (R)	1	
234(3)		VMA6900	CASSETTE GUIDE	1	
240(3)		VMA7224	CASSETTE HOLDER ANGLE	1	
241(3)		VWJ040W270MM	FLEXIBLE CARD	1	P1503-P1507(4P)
242(3)		VWJ060W095MM	FLEXIBLE CARD	1	P6002-P1508(6P)
300(4)		VGM0697	TOP PANEL	1	
301(4)		VHD0165	TOP PANEL SCREW	4	
302(4)		VYP3885	FRONT PANEL UNIT	1	
303(4)		VGQ0550	DOOR LOCK PIECE	2	
304(4)		VYF1797	DOOR PANEL UNIT	1	
305(4)		VES0655	DOOR PANEL SW	1	
306(4)		VMC0801	DOOR EARTH SPRING	1	
307(4)		VGQ2630	DOOR HOLDER ANGLE (L)	1	
308(4)		VGQ2631	DOOR HOLDER ANGLE (R)	1	
309(4)		VKF1813	BLINDER PANEL	1	
310(4)		VMB2389	BLINDER SPRING	1	
311(4)		VMT0434	CUSHION RUBBER	1	
314(4)		VKU0302	BOTTOM PLATE	1	
315(4)		VHD0059	BOTTOM PLATE SCREW	6	
316(4)		VMP3321	TOP HOLDER ANGLE (A)	2	
317(4)		VMP3322	TOP HOLDER ANGLE (B)	1	
318(4)		VMP3356	TOP HOLDER ANGLE (C)	1	
319(4)		VKA0137	LEG	2	
320(4)		VKA0122	FOOT	2	
321(4)		VJF0163	WIRE SADDLE	1	
322(4)		VHD0168	CHASSIS SCREW	1	
323(4)		VHD0418	MAIN SCREW	1	
324(4)		VJS3084A008	BRIDGE CONNECTOR	1	
327(4)		VXA3571	POWER SHIELD COVER (MAIN)	1	
328(4)		VSC2397	POWER SHIELD COVER (TOP)	1	
329(4)		VSC2237	POWER SHIELD COVER (BOTTOM)	1	
330(4)		VMZ1950	POWER BARRIER	1	
331(4)		VGH2721	NAME PLATE	1	
332(4)		VMC0357	IC HOLDER SPRING	1	
333(4)		VMP1734	SCREW STOPPER ANGLE	1	
335(4)		VJH0617	ANT TERMINAL PLATE	1	
336(4)		VMP3438	FTZ ANGLE	2	NV-F55EG
337(4)		VGQ2756	FTZ ANGLE HOLDER	2	NV-F55EG
400(5)		VQT4430	OPERATING INSTRUCTIONS	1	<!>
			(ENGLISH/GERMAN)		
400(5)		VQT4482	OPERATING INSTRUCTIONS	1	<!>NV-F55EV
			(FRENCH/DUTCH)		
400(5)		VQT4483	OPERATING INSTRUCTIONS	1	<!>NV-F55EV
			(ITALIAN)		
401(5)		VQC1859	PROGRAMME SHEET	1	NV-F55EG
401(5)		VQC1859	PROGRAMME SHEET	1	NV-F55EV
402(5)		VJA0710	DIN RF CABLE	1	NV-F55EG
402(5)		VJA0376	DIN RF CABLE	1	NV-F55EV
403(5)		VJA0449	AC CORD	1	<!>NV-F55EG
403(5)		VJA0664	AC CORD	1	<!>NV-F55EV
404(5)		VJA0231	AUDIO CABLE	1	
405(5)		VEQ1357	REMOTE CONTROLLER	1	
			(BUILD IN DIGITAL SCANNER)		
410(5)		VPK0834	ACCESSORIES PACKING	1	
411(5)		VPN3304	CUSHION (R)	1	
412(5)		VPN3303	CUSHION (L)	1	
413(5)		VPG6262	PACKING	1	NV-F55EG
413(5)		VPG6315	PACKING	1	NV-F55EV
			SERVICING FIXTURES		
		VFJ8125H3F	VHS-ALIGNMENT TAPE (PAL)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VFK0335	RETAINING RING REMOVER	1	
			(3mm/4mm)		
		VFK0387	TENSION POST ADJUSTMENT	1	
			PLATE		
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT GAUGE	1	
		VFK0328	H-POSITION ADJ.	1	
			SCREWDRIVER		
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK62	FAN TYPE TENSION GAUGE	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK0343	CHECK LIGHT	1	
		VFK0344	HEIGHT ADJUSTMENT JIG	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0680	WHITE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	

4-3. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'▮'show below the main assembled parts.
5.Printed circuit board assembly with mark(NLA) is no longer available after discontinuation of the product.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03884B	MAIN C.B.A.	1	(NLA)NV-F55EG
		VEP03884H	MAIN C.B.A.	1	(NLA)NV-F55EV
					INCLUDING THE
					LUMINANCE &
					CHROMINANCE C.B.A.
					(VEP03857S,Y)
					INPUT/OUTPUT C.B.A.
					(VEP04356A,B),
					FM AUDIO C.B.A.
					(VEP04361A),
					VPS C.B.A(VEP07538F),
					TV DEMODULATOR C.B.A.
					(VEP07643E),
					DECODER C.B.A.
					(VEP07671A).
		VEP03857S	LUMINANCE & CHROMINANCE	1	(NLA)NV-F55EG
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03884B).
		VEP03857Y	LUMINANCE & CHROMINANCE	1	(NLA)NV-F55EV
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03884H).
		VEP04356A	INPUT/OUTPUT PACK C.B.A.	1	(NLA)NV-F55EG
					INCLUDED IN MAIN
					C.B.A. (VEP03884B).
		VEP04356B	INPUT/OUTPUT PACK C.B.A.	1	(NLA)NV-F55EV
					INCLUDED IN MAIN
					C.B.A. (VEP03884H).
		VEP04361B	HiFi AUDIO PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A. (VEP03884B,H).
		VEP07538F	VPS PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A. (VEP03884B,H).
		VEP07643E	TV DEMODULATOR PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A. (VEP03884B,H).
		VEP07671A	DECODER PACK C.B.A.	1	(NLA)
					INCLUDED IN MAIN
					C.B.A. (VEP03884B,H).
		VEP05170E	HEAD AMP C.B.A.	1	(NLA)
		VEP07663A	TIMER C.B.A.	1	(NLA)
		VEP06780A	OPERATION C.B.A.	1	(NLA)
					INCLUDING THE MIC
					JACK C.B.A(VEP00R90A)
		VEP00R90A	MIC JACK C.B.A.	1	(NLA)
					INCLUDED IN OPERATION
					C.B.A. (VEP06780A)
		VEP01487A	POWER C.B.A.	1	(NLA)<!>NV-F55EG
		VEP01487B	POWER C.B.A.	1	(NLA)<!>NV-F55EV
		VXA4463	MECHANISM CONNECTION C.B.A.	1	(NLA)
		VEP00R11B	PHOTO TR. (S) C.B.A.	1	(NLA)
		----------	PHOTO TR. (T) C.B.A.	1	(NLA)
		VEX0123	CYLINDER DRIVE C.B.A.	1	(NLA)
		ENV57884H6	TUNER	1	(NLA)<!>
		ENC17984	RF CONVERTER	1	(NLA)<!>
F1101		XBA2C16TB0	FUSE	1	<!>
	▮	VEP03884B	MAIN C.B.A.		(NLA)NV-F55EG
	▮	VEP03884H	MAIN C.B.A.		(NLA)NV-F55EV
			CAPACITORS		
C301		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C302		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C303		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C304,05		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C306		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C307		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C308		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C309		ECQV1H334JZ	P.CAPACITOR 50V 0.33U	1	
C310		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C311		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C312		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C313		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C314		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C315		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C316		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C317		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C318		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C320		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C321		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C324		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C325		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C701		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C702		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C703		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C707		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	1	
C708		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C717-20		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C721		ECEA1HKR27K	E.CAPACITOR 50V 0.27U	1	
C722		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C723		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C725		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C727		ECUM1H080DCN	C.CAPACITOR CH 50V 80P	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		ECEA1CKS100	E.CAPACITOR 16V 10U	1	
C734		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C739		ECEA1HK010	E.CAPACITOR 50V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C742		ECUM1H030CCN	C.CAPACITOR CH 50V 3P	1	
C743		ECUM1H270RSN	C.CAPACITOR CH 50V 27P	1	
C744		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C745		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C781		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C782		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C801		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C802		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C803		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C804,05		ECEA0JK101	E.CAPACITOR 6.3V 100U	2	
C806		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C807		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C808-10		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C811		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C812,13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C814		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C819		ECEA0JFE221	E.CAPACITOR 6.3V 220U	1	
C820		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C821		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C822		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C823		ECQB1H332JH	P.CAPACITOR 50V 0.27U	1	
C824		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C825		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C826		ECUM1H681KBN	C.CAPACITOR CH 50V 680P	1	
C827,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C829		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C830		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C831		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C832		ECUM1H123KBN	C.CAPACITOR CH 50V 0.012U	1	
C833,34		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C835		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C836,37		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	2	
C838-42		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C843		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C844		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C845		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2001,02		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	2	
C2003		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C2004		ECA1EM222	E.CAPACITOR 25V	1	
C2005		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C2006		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C2007		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	1	
C2008-11		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	4	
C2012,13		ECEA1HK2R2	E.CAPACITOR 50V 2.2U	2	
C2014,15		ECUM1H333KBN	C.CAPACITOR CH 50V 0.033U	2	
C2016		ECA0JM221	E.CAPACITOR 6.3V	1	
C2017		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C3001		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C3004		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C3009		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3010		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C3011,12		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3013		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C3014		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3015		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3018		ECA0JM102	E.CAPACITOR 6.3V	1	
C3020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3021		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C3022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3023		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3025		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
C3027		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3030		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3031		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3032		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3033		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3034		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3035		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3037		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3038		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3039		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3040		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3041		ECUM1H681JCN	CAPACITOR 50V	1	
C3042		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3043		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3044		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3046		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C3047		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3048,49		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	2	
C3050		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3051,52		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	2	NV-F55EG
C3901		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3902		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C3903		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C3904-06		ECEA1CK220	E.CAPACITOR 16V 22U	3	
C3907		ECEA05KJ471	E.CAPACITOR 5V 470U	1	NV-F55EG
C3908,09		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C3910,11		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	2	
C3915		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C3950,51		ECEA1CK100	E.CAPACITOR 16V 10U	2	NV-F55EG
C3952		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4002,03		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	2	
C4004		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4005		ECUM1C224ZFN	C.CAPACITOR 16V 0.22U	1	
C4006		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4007		ECEA1CPZ470	E.CAPACITOR 16V 47U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR 16V 0.22U	1	
C4009		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4010,11		ECEA0JPK470	E.CAPACITOR 6.3V 47U	2	
C4012		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4013		ECQP1222JZ	P.CAPACITOR 0.0022U	1	
C4014		ECCD2H331J	C.CAPACITOR 500V 330P	1	
C4015		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C4016		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4017,18		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C4020		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C4021		ECUM1H683ZFN	C.CAPACITOR CH 50V 0.068U	1	
C4022		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C4023		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C4024		VCEA1HAC3R3	E.CAPACITOR 50V 3.3U	1	
C4030		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C4031		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C4150		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4502		ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CPZ470	E.CAPACITOR 16V 47U	2	
C4506		VCEA1CAH100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	
C4509		ECEA1APZ470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4514		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4515		VCEA1EAH4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4518		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C4521		ECUM1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4522		VCEA1HAH3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C4530		ECEA0JPK470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CPZ330	E.CAPACITOR 16V 33U	1	
C4537		ECUM1H102JCN	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HU0R1	E.CAPACITOR 50V 0.1U	1	
C4539		ECUM1C224ZFN	C.CAPACITOR 16V 0.22U	1	
C4541		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C4545		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C4552		ECUM1C104ZFN	C.CAPACITOR CH 16V 0.1U	1	
C4556		VCEA1CAH100	E.CAPACITOR 16V 10U	1	
C4557		ECQB1H223JA	P.CAPACITOR 50V 0.022U	1	
C4558		ECEA1HPZ4R7	E.CAPACITOR 50V 4.7U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4559		ECEA1APZ470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JA	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JA	P.CAPACITOR 50V 3300P	1	
C4562		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4563		ECUM1H681JN	C.CAPACITOR CH 50V 680P	1	
C4564		ECUM1H561JN	C.CAPACITOR CH 50V 560P	1	
C4565		VCEA1EAH4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1APZ101	E.CAPACITOR 10V 100U	1	
C4568		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C4572		VCEA1HAH3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CPZ330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1APZ101	E.CAPACITOR 10V 100U	2	
C4591		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		VCEA0JAC470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C4613		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1CM22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4619		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C4621		ECEA0JPK101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H103JZ	P.CAPACITOR 50V 0.01U	1	
C4636		ECUM1H471JN	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JH	P.CAPACITOR 50V 8200P	1	
C4651		ECQB1H333JA	P.CAPACITOR 50V 0.033U	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR 16V 1U	2	
C4901,02		VCEA1AAC101	E.CAPACITOR 10V 100U	2	
C4903,04		ECQB1H103JH	P.CAPACITOR 50V 0.01U	2	NV-F55EG
C4905,06		ECQB1H332JH	P.CAPACITOR 50V 3300P	2	NV-F55EG
C4907,08		ECUM1H101KN	C.CAPACITOR CH 50V 100P	2	
C4909		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	NV-F55EG
C4910		ECQB1H682JH	P.CAPACITOR 50V 6800P	1	NV-F55EG
C4911		ECQB1H183JH	P.CAPACITOR 50V 0.018U	1	NV-F55EG
C4912		ECUM1H101KN	C.CAPACITOR CH 50V 100P	1	
C4913		ECQB1H682JH	P.CAPACITOR 50V 6800P	1	NV-F55EG
C4914		ECUM1H101KN	C.CAPACITOR CH 50V 100P	1	
C4915,16		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4952		VCEA1AAC470	E.CAPACITOR 10V 47U	1	NV-F55EG
C4954		VCEA1AAC470	E.CAPACITOR 10V 47U	1	NV-F55EG
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C6003		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6004		ECA0JM331	E.CAPACITOR 6.3V	1	
C6005		ECA1EM470	E.CAPACITOR 25V	1	
C6008		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C6009		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6010		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	1	
C6011		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C6012		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6013,14		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	2	
C6015		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6017		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C6018		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C6019		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6020		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6021		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6022		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6023		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C6024		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6025		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6026		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6027		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
C6030		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	1	
C6031		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C6034		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6035		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C6037		ECEA0JK220	E.CAPACITOR 6.3V 22U	1	
C6038		ECUM1H471JN	C.CAPACITOR CH 50V 470P	1	
C6039		VCYE1C104MR1	S.CAPACITOR 16V 0.1U	1	
C6040		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C6041		ECQV1H683JZ	P.CAPACITOR 50V 0.068U	1	
C6042		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6043		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6044		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C6045		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C6046		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C6047		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6048		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6049		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C6050		ECQB1H223JH	P.CAPACITOR 50V 0.022U	1	
C6051		ECQV1H184JZ	P.CAPACITOR 50V 0.18U	1	
C6052		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C6053		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	NV-F55EG
C6054		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C6055		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C6056		ECEA1AK470	E.CAPACITOR 10V 47U	1	
C6059		ECEA1HK4R7	E.CAPACITOR 50V 4.7U	1	
C6060		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6062		ECEA1HK3R3	E.CAPACITOR 50V 3.3U	1	
C6065		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C6066		ECA1JM330	E.CAPACITOR 63V	1	
C7003-05		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C7006		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7007		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7008		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7013		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7014		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C7018		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C7019		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7020		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16M10	E.CAPACITOR 16V	1	
C7311		ECEA50MR47	E.CAPACITOR	1	
C7312		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7315		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JZ	P.CAPACITOR 50V 0.22U	1	
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320,21		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7323,24		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	2	
C7331		ECQV1H474JZ	P.CAPACITOR 50V 0.47U	1	
C7332,33		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	2	
C7334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7336		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7339		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7342		ECQV1H823JZ	P.CAPACITOR 50V 0.082U	1	
C7343		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7345		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7348		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7349,50		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C7351,52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7353		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECQB1H332JH	P.CAPACITOR 50V 0.27U	1	
C7668		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7685		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7801		ECQB1H102JZ	P.CAPACITOR 50V 1000P	1	
C7802		ECQB1H471JZ	F.CAPACITOR 50V 470P	1	
C7803		ECQB1H472JZ	P.CAPACITOR 50V 4700P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7804		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7805		ECQB1H472JZ	P.CAPACITOR 50V 4700P	1	
C7806		ECQB1H223JZ	P.CAPACITOR 50V 0.022U	1	
C7815		VCYE1C104MR1	S.CAPACITOR 16V 0.1U	1	
C7816		ECEA0JK331	E.CAPACITOR 6.3V 330U	1	
C7851		ECQV1H104JZ	P.CAPACITOR 50V 0.1U	1	
C7852		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7853,54		ECCF1H330JC	C.CAPACITOR CH 50V 33P	2	
C7855,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7860		ECEA0JK101	E.CAPACITOR 6.3V 100U	1	
			DIODES		
D301		MA4091	DIODE	1	
D305		1SS254	DIODE	1	
D710		MA3100L	DIODE	1	
D801		MA723VT	DIODE	1	(VT)
D802,03		1SS254	DIODE	2	
D804		MA723VT	DIODE	1	(VT)
D806		1SS254	DIODE	1	
D2001-04		1SS254	DIODE	4	
D2005		ERA15-01	DIODE	1	
D2006		AK04	DIODE	1	
D2007		MA151K	DIODE	1	
D2009,10		MA723VT	DIODE	2	(VT)
D2011-13		1SS254	DIODE	3	
D3001		MA151WA	DIODE	1	
D3003,04		1SS254	DIODE	2	
D3006		11EQS04	DIODE	1	
D3010,11		1SS254	DIODE	2	
D3901		1SS254	DIODE	1	
D3902		MA151K	DIODE	1	NV-F55EG
D3903		MA151WK	DIODE	1	NV-F55EV
D3930		MA151WK	DIODE	1	
D4003		MA73	DIODE	1	
D4004		1SS254	DIODE	1	
D4005		MA73	DIODE	1	
D4050,51		MA73	DIODE	2	
D4052		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
D4501-04		MA151K	DIODE	4	
D4602		MA151K	DIODE	1	
D4951,52		MA4068M	DIODE	2	(M,L)NV-F55EG
D6002-05		1SS254	DIODE	4	
D6006		SV03YS	DIODE	1	
D6009		MA723VT	DIODE	1	(VT)
D6011-14		1SS254	DIODE	4	
D6015		MA151WA	DIODE	1	
D7001,02		MA723VT	DIODE	2	(VT)
D7303		MA28WA	DIODE	1	
D7304		MA3100L	DIODE	1	
D7672,73		MA3150H	DIODE	2	
D7851		1SS254	DIODE	1	
			DELAYS		
DL801		EFDUN124A13N	DELAY	1	
DL802		EFDWF124A13A	DELAY	1	
			FILTERS		
FL301		VLF0727	FILTER	1	
FL801		ELB4H060	FILTER	1	
FL4501		VLF0947	FILTER	1	
			INTEGRATED CIRCUIT		
IC301		MSM6965-3RS	IC	1	
IC302		VEFH14D	IC	1	
IC701		M51366SP	IC	1	
IC801		M52063SP	IC	1	
IC802		M52065FP	IC	1	
IC2001		UPC358G2	IC	1	
IC2002		XRA6435S	IC	1	
IC3901		M51292FP	IC	1	
IC3902		BA7004	IC	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
IC3903		NJM2244MA	IC	1	NV-F55EG
IC4001		RC4558D	IC	1	
IC4501		BH7770KS	IC	1	
IC4601		BA7755AF	IC	1	
IC4901		M51293FP	IC	1	
IC4902		MN4066BS	IC	1	NV-F55EG
IC6001		MN67431VREH	IC	1	
IC6002		SI-3090CA	IC	1	
IC6003		UPC358G2	IC	1	
IC6004		PST591D	IC	1	
IC7001		M66006FP	IC	1	
IC7301		TDA3803A	IC	1	
IC7302		TA8721SN	IC	1	
IC7801		SAA4700	IC	1	
IC7851		MN158413VSSY	IC	1	
IC7852		MN1280S	IC	1	(S)
			CONNECTORS		
J3901		VEJ1185	CONNECTOR	1	
J3902		VJS1470	CONNECTOR (FEMALE)	1	
			COILS		
L301-04		ELESQ101KA	COIL 100UH	4	
L305		ELESP560KA	COIL 56UH	1	
L306		ELESP680KA	COIL 68UH	1	
L310,11		VLP0124	COIL	2	
L701		ELESP680KA	COIL 68UH	1	
L711		ELQTR22XB	COIL 0.22UH	1	
L714		VLQ0305J1R2	COIL 1.2UH	1	
L715		VLQ0213K680	COIL 68UH	1	
L716		ELESP560KA	COIL 56UH	1	
L717,18		ELESP680KA	COIL 68UH	2	
L719		ELESP120KA	COIL 12UH	1	
L781		ELESP680KA	COIL 68UH	1	
L801		ELESP560JA	COIL 56UH	1	
L802		ELESP270KA	COIL 27UH	1	
L803		ELESQ101KA	COIL 100UH	1	
L804		VLQ0188K150	COIL 15UH	1	
L805,06		ELESQ150KA	COIL 15UH	2	
L807		VLQ0188K150	COIL 15UH	1	
L808		ELESQ101KA	COIL 100UH	1	
L809		VLQ0188K101	COIL 100UH	1	
L810-12		ELESQ101KA	COIL 100UH	3	
L2001		ELESP102KA	COIL 1MH	1	
L2002,03		VLP0083	FILTER	2	
L3001		ELESQ101KA	COIL 100UH	1	
L3004		ELESQ101KA	COIL 100UH	1	
L3009		ELESP820KA	COIL 82UH	1	
L3011		ELESP151KA	COIL 150UH	1	
L3012		ELESP270KA	COIL 27UH	1	
L3013		ELESQ101KA	COIL 100UH	1	
L3015		ELESP6R8JA	COIL 6.8UH	1	
L3016		ELESP5R6JA	COIL 5.6UH	1	
L3017		ELESQ101KA	COIL 100UH	1	
L3018		ELESP120KA	COIL 1MH	1	
L3019		ELESQ101KA	COIL 100UH	1	
L3901-03		ELESQ101KA	COIL 100UH	3	
L4001,02		ELESQ101KA	COIL 100UH	2	
L4003		ELESP471KA	COIL 470UH	1	
L4501,02		ELESQ101KA	COIL 100UH	2	
L4601		VLQEL07F153J	COIL 15MH	1	
L4901,02		VLQ0188K101	COIL 100UH	2	NV-F55EG
L4903-06		ELESE102KA	COIL 1MH	4	NV-F55EG
L6003		ELESQ101KA	COIL 100UH	1	
L6004		VLP0074	COIL	1	
L7001,02		ELESP1R0KA	COIL 1UH	2	
L7003-05		ELESQ101KA	COIL 100UH	3	
L7006		VLP0085	FILTER	1	
L7007		ELESQ101KA	COIL 100UH	1	
L7301		ELESP102KA	COIL 1MH	1	
			CONNECTORS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P201		VJS1232T	CONNECTOR (FEMALE)	1	
P501		VJF0171T	CONNECTOR	1	
P551		VJS1235T	CONNECTOR (FEMALE)	1	
P1001		VJP1237T	CONNECTOR (MALE) 10P	1	
P1001		VJS1237T	CONNECTOR (FEMALE)	1	
P1101		VJS1237T	CONNECTOR (FEMALE)	1	
P2001		VJP1232T	CONNECTOR (MALE) 5P	1	
P2001		VJS1232T	CONNECTOR (FEMALE)	1	
P2002		VJS3193A015A	CONNECTOR (FEMALE)	1	
P3001		VJP1251T	CONNECTOR (MALE) 11P	1	
P3001		VJS1238T	CONNECTOR (FEMALE)	1	
P3901		VJP1249T	CONNECTOR (MALE) 9P	1	
P3901		VJS1236T	CONNECTOR (FEMALE)	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1235T	CONNECTOR (MALE) 8P	1	
P4002		VJS1235T	CONNECTOR (FEMALE)	1	
P4003		VJP1236T	CONNECTOR (MALE) 9P	1	
P4003		VJS1236T	CONNECTOR (FEMALE)	1	
P4004		VJP1230T	CONNECTOR (MALE) 3P	1	
P4004		VJS1230T	CONNECTOR (FEMALE)	1	
P6001		VJS3193A013A	CONNECTOR (FEMALE)	1	
P6002		VJS3147	CONNECTOR (FEMALE)	1	
P6005		VJP1511T	CONNECTOR (MALE)	1	
P6005		VJS1238T	CONNECTOR (FEMALE)	1	
P7401		VJS3193A020A	CONNECTOR (FEMALE)	1	
P7402		VJS1662	CONNECTOR (FEMALE)	1	
P7505		VJS1931T	CONNECTOR (FEMALE)	1	
PP3005		VJP3042G014W	CONNECTOR (MALE)	1	
PP3006		VJP3042A012W	CONNECTOR (MALE)	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE)	3	
PP7404		VJP3043A006W	CONNECTOR (MALE)	1	
PP7405		VJP3043A004W	CONNECTOR (MALE)	1	
PS1		VJR0189	CONNECTOR (MALE)		
PS701-03		VJS3043B005W	CONNECTOR (FEMALE)	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE)	1	
PS3951		VJS3042F014W	CONNECTOR (FEMALE)	1	
PS3952		VJS3042B012W	CONNECTOR (FEMALE)	1	
PS4001		VJP3186A018	CONNECTOR (MALE)	1	
PS4001		VJS3186B018	CONNECTOR (FEMALE)	1	
PS4002		VJP3186A018	CONNECTOR (MALE)	1	
PS4002		VJS3186B018	CONNECTOR (FEMALE)	1	
PS4003		VJP3186A018	CONNECTOR (MALE)	1	
PS4003		VJS3186B018	CONNECTOR (FEMALE)	1	
PS7301,02		VJR0477	PACK PIN	2	
			TRANSISTORS		
Q301		MSC2295	TRANSISTOR	1	
Q303		MSB709	TRANSISTOR	1	
Q703		MSD601-S	TRANSISTOR	1	
Q712		2SD1992	TRANSISTOR	1	
Q771		MSD601-S	TRANSISTOR	1	
Q801		MSC2295	TRANSISTOR	1	
Q802,03		MSD601	TRANSISTOR	2	
Q805		MSD601	TRANSISTOR	1	
Q3001		MSD601	TRANSISTOR	1	
Q3003		MSB710-R	TRANSISTOR	1	
Q3004		2SB1320	TRANSISTOR	1	
Q3006		MSD601	TRANSISTOR	1	
Q3008		MSC2295	TRANSISTOR	1	
Q3009		MSB709	TRANSISTOR	1	
Q3010,11		MSC2295	TRANSISTOR	2	
Q3013		MSD601	TRANSISTOR	1	
Q3014		MSB709	TRANSISTOR	1	
Q3902		2SC2295	TRANSISTOR	1	
Q4001		MSB710-R	TRANSISTOR	1	
Q4003		2SD602A-R	TRANSISTOR	1	
Q4501		2SD655	TRANSISTOR	1	
Q4551		2SB561	TRANSISTOR	1	
Q4601		MSD1328	TRANSISTOR	1	
Q4951		2SB774-S	TRANSISTOR	1	NV-F55EG

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q4952		2SD636	TRANSISTOR	1	NV-F55EG
Q6001		MSD602	TRANSISTOR	1	
Q6002-04		2SD1994-S	TRANSISTOR	3	(S)
Q6005		MSD601	TRANSISTOR	1	
Q6007		MSB709	TRANSISTOR	1	
Q6008		2SD1996	TRANSISTOR	1	
Q6009		2SB1378-R	TRANSISTOR	1	
Q6010,11		MSB710-R	TRANSISTOR	2	
Q6012		2SB1321-R	TRANSISTOR	1	
Q7301		MSD601-ST	TRANSISTOR	1	
Q7304,05		MSD601	TRANSISTOR	2	
Q7306		2SC2404-C	TRANSISTOR CHIP	1	(C,D)
Q7307		2SD1328	TRANSISTOR	1	
			COMBINATION PARTS		
QR301,02		IMH5	TRANSISTOR-RESISTOR	2	
QR303		MRN1404	TRANSISTOR	1	
QR304		MRN1403	TRANSISTOR	1	
QR701,02		MRN1404	TRANSISTOR	2	
QR711,12		MRN1403	TRANSISTOR	2	
QR801		MRN2404	TRANSISTOR	1	
QR802		MRN1404	TRANSISTOR	1	
QR803		IMH6	TRANSISTOR	1	
QR2001,02		MRN2404	TRANSISTOR	2	
QR2003		MRN1407	TRANSISTOR	1	
QR2004		DTC114TK	TRANSISTOR-RESISTOR	1	
QR2005,06		MRN1404	TRANSISTOR	2	
QR3001		MRN2402	TRANSISTOR	1	
QR3006		MRN2402	TRANSISTOR	1	
QR3009		DTC363EK	COMBI.TR-R	1	
QR3010		DTC363EK	TRANSISTOR-RESISTOR	1	
QR3012		MRN1403	TRANSISTOR	1	
QR3013		MRN1404	TRANSISTOR	1	
QR3901		MRN1404	TRANSISTOR	1	NV-F55EG
QR3902		MRN2404	TRANSISTOR	1	NV-F55EG
QR3903		MRN1403	TRANSISTOR	1	NV-F55EG
QR4001		MRN1404	TRANSISTOR	1	
QR4002,03		MRN2402	TRANSISTOR	2	
QR4004,05		MRN1404	TRANSISTOR	2	
QR4006		DTC363EK	COMBI.TR-R	1	
QR4508,09		MRN2404	TRANSISTOR	2	
QR4510		MRN1403	TRANSISTOR	1	
QR4602		MRN2402	TRANSISTOR	1	
QR4603		MRN1404	TRANSISTOR	1	
QR4901		MRN1404	TRANSISTOR	1	NV-F55EG
QR6001		UN221K	TRANSISTOR	1	
QR6002,03		MRN1403	TRANSISTOR	2	
QR6004		MRN2404	TRANSISTOR	1	
QR6005		UN2119	TRANSISTOR-RESISTOR	1	
QR6006,07		MRN2404	TRANSISTOR	2	
QR6008		MRN1402	TRANSISTOR	1	
QR6009		MRN1404	TRANSISTOR	1	
QR6012		MRN1403	TRANSISTOR	1	
QR6013		MRN1404	TRANSISTOR	1	
QR6015,16		MRN1404	TRANSISTOR	2	
QR6018-21		MRN1404	TRANSISTOR	4	
QR6022		MRN2404	TRANSISTOR	1	
QR7001		MRN1402	TRANSISTOR	1	
QR7004		MRN2404	TRANSISTOR	1	
QR7301,02		MRN1404	TRANSISTOR	2	
QR7312-14		MRN1402	TRANSISTOR	3	
QR7315,16		MRN1404	TRANSISTOR	2	
QR7851		UN6211	TRANSISTOR-RESISTOR	1	
QR7852		UN6213	TRANSISTOR-RESISTOR	1	
			RESISTORS		
R301		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R302		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R303		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305,06		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R307		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R308		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R309-11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R312		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R313		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R316		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R317		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R319		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R321		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R716		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R717		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R718		ERJ6GEYJ754	M.RESISTOR CH 1/10W 750K	1	
R719,20		ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	2	
R721		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R722		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R723		ERJ6GEYJ183	M.RESISTOR CH 1/10W 18K	1	
R724		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R725		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R726		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R727		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R728		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R737		ERJ6GEYJ274	M.RESISTOR CH 1/10W 270K	1	
R738		ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R740		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R741		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R743		ERJ6GEYJ470	M.RESISTOR CH 1/10W 47	1	
R744		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ181	C.RESISTOR 1/4W 180	1	
R747		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R750		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R759		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R781		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R782		ERJ6GEYJ821	M.RESISTOR CH 1/10W 820	1	
R792		ERDS2TJ120	C.RESISTOR 1/4W 12	1	
R801		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R802		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R803		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R804		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R807,08		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R809,10		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R811		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R812		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R813,14		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816,17		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R818,19		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	2	
R820,21		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R822		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R823		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R824		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R825,26		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R827		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R828		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R829		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R830		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R831		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R832		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R833		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R834		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R835		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R836		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R838		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R840		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R841		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R843-45		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R846		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R847		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R848		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R849		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R850		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R2001,02		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	2	
R2003,04		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	2	
R2005		ERJ6GMYJ330	M.RESISTOR CH 1/10W 33	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2006,07		ERDS2TJ560	C.RESISTOR 1/4W 56	2	
R2008		ERX12SJR47	M.RESISTOR 1/2W 0.47	1	
R2009		ERDS2TJ560	C.RESISTOR 1/4W 56	1	
R2010		ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R2011		ERJ6GMYG622	M.RESISTOR CH 1/10W 6.2K	1	
R2012		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R2013		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R2015		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2016		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2018		ERJ6GMYG203	M.RESISTOR CH 1/10W 20K	1	
R2019,20		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R2050		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3001		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3002		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3003		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3004		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3005,06		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R3012		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3013		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3014		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3016		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3018		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3019		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3022		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R3023		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3025		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3028		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3029,30		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3031		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3032		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R3033		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3034		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3036		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3037		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3039		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3040		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R3041,42		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R3043		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3044		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3045		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	
R3046,47		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3052		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3053		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3054		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3055		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3056		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3058		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3901-04		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	4	
R3905		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3906		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R3907		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R3908		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3909		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3910		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3911		ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R3912,13		ERJ6GEYJ750	M.RESISTOR CH 1/10W 75	2	
R3950		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	NV-F55EG
R3951		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	NV-F55EV
R3952		ERJ6GMZOROO	M.RESISTOR CH 1/10W 0	1	NV-F55EG
R3953		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	NV-F55EG
R3953		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.2K	1	NV-F55EV
R3954		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	2	NV-F55EG
R4001		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4002		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4003		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4004		ERJ6GMYG273	M.RESISTOR CH 1/10W 27K	1	
R4005		ERJ6GMYG823	M.RESISTOR CH 1/10W 82K	1	
R4006		ERJ6GMYG683	M.RESISTOR CH 1/10W 68K	1	
R4007		ERJ6GMYG100	M.RESISTOR CH 1/10W 10	1	
R4013		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4016		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4018		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4019		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4020		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4021		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4022		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4023		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4026		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4027		ERJ6GMYJ433	M.RESISTOR CH 1/10W 43K	1	
R4030		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		VRE0071E36C	M.RESISTOR CH	1	
R4504,05		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	2	
R4506,07		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4508		ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R4509		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4510		ERJ6GEYJ621	M.RESISTOR CH 1/10W 620	1	
R4511		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4512		VRE0034E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4518,19		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	2	
R4522		ERJ6GEYJ225	M.RESISTOR CH 1/10W 2.2M	1	
R4527		VRE0034E333	M.RESISTOR CH 1/10W 33K	1	
R4528		VRE0034E153	M.RESISTOR CH 1/10W 15K	1	
R4529		ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	
R4530		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4534		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4540		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4541		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4542		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4554		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4558		ERJ6GEYG224	M.RESISTOR CH 1/10W 220K	1	
R4561		ERJ6GEYG303	M.RESISTOR CH 1/10W 30K	1	
R4562		VRE0034E10C	M.RESISTOR 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R4569		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4573		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0034E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R4584		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4586		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R4592		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R4593		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4610		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4611,12		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	2	
R4613		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R4615		ERJ6GEYJ133	M.RESISTOR CH 1/10W 13K	1	
R4616		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R4638		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R4649		ERJ3GEYG470	M.RESISTOR 1/16W 47	1	
R4651		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R4653		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4654		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R4655		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4656		ERJ6GEYG243	M.RESISTOR CH 1/10W 24K	1	
R4657		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R4658		ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R4659		ERJ6GEYJ123	M.RESISTOR CH 1/10W 12K	1	
R4666		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R4901		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	
R4902,03		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R4904		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4905,06		ERJ6GEYG153	M.RESISTOR CH 1/10W 15K	2	
R4907		ERJ6GEYJ683	M.RESISTOR CH 1/10W 68K	1	
R4908		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4909		ERJ6GEYG183	M.RESISTOR CH 1/10W 18K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4910		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R4911		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4912		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4913		ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	NV-F55EG
R4913		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	NV-F55EV
R4914		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	NV-F55EG
R4914		ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	NV-F55EV
R4915		ERJ6GEYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R4916		ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	NV-F55EG
R4916		ERJ6GEYG133	M.RESISTOR CH 1/10W 13K	1	NV-F55EV
R4917		ERJ6GEYJ243	M.RESISTOR CH 1/10W 24K	1	NV-F55EG
R4917		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	NV-F55EV
R4918		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	NV-F55EG
R4919,20		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	2	NV-F55EG
R4921,22		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	NV-F55EG
R4923		ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	NV-F55EV
R4924		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	NV-F55EV
R4925		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4926,27		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R4928,29		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	2	
R4930,31		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R4951		ERJ6GEYJ121	M.RESISTOR CH 1/10W 120	1	NV-F55EG
R4952		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	NV-F55EG
R6001		ERD2FCVG220	C.RESISTOR 2W 22	1	
R6002		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6003		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6004		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6005		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6007		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6008		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6009		ERJ6GMYJ131	M.RESISTOR CH 1/10W 130	1	
R6010		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6011		ERG3SJ220	M.RESISTOR 3W 22	1	
R6014		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6016		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6017		ERJ6GMYJ201	M.RESISTOR CH 1/10W 200	1	
R6019		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6020		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6021		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6022,23		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6024		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6025		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6026		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6027		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6029		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R6030		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6031,32		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6033		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6034-37		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	4	
R6038		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6039-42		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R6043		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6044,45		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	2	
R6047		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6048		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6049		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6050,51		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	2	
R6052		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R6053		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R6054		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6055		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6056		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6057		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6058		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6059		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6060		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6061		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R6062,63		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6064		ERJ6GMYG513	M.RESISTOR CH 1/10W 51K	1	
R6065-67		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	3	
R6068,69		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R6070,71		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6072		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R6073		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6074		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6075		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6076		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R6077,78		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6079		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R6080		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6081		ERJ6GMYJ184	M.RESISTOR CH 1/10W 180K	1	
R6083		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6084		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6085		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6087		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6088		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6089		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6090		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6091		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6092		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R6093		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R6098,99		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R6100		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R6101		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6102		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6103		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6132		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7002		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R7003		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7004		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75K	1	NV-F55EV
R7005		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	NV-F55EG
R7005		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75K	1	NV-F55EV
R7006,07		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R7008		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7009		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7302		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7303		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7304		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7305		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7306		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7307		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7308		ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7309		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7311		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7312		ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7313		ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R7314,15		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R7316		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7317		ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7318		ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R7321		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7322		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7323		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7324,25		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	2	
R7329		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7330		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7334-37		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	4	
R7338		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7339		ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R7340		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7341		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7342		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7345		ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7346		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7347		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7348		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7349		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7351-53		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R7354,55		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7656		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7676		ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7801		ERDS2TJ472	C.RESISTOR CH 1/4W 4.7K	1	
R7802		EROS2CKG7502	M.RESISTOR CH 1/4W 75K	1	
R7803,04		ERDS2TJ103	C.RESISTOR CH 1/4W 10K	2	
R7805		ERDS2TJ473	C.RESISTOR CH 1/4W 47K	1	
R7806		EROS2CKG8201	M.RESISTOR CH 1/4W 8.2K	1	
R7851		ERDS2TJ103	C.RESISTOR CH 1/4W 10K	1	
R7852		ERDS2TJ332	C.RESISTOR CH 1/4W 3.3K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7860		ERDS2TJ471	C.RESISTOR CH 1/4W 470	1	
			SWITCHES		
SW3901		VSS0225	SWITCH	1	
			TRANSFORMERS		
T703		EIV5EC013A	TRANSFORMER	1	
T704		EIV5EC006A1	TRANSFORMER	1	
T4001		EIQ7QF013Q	TRANSFORMER	1	
T7301		EIR7QG001B	IF TRANSFORMER	1	
T7302,03		EIL7QH012Q	TRANSFORMER	2	
T7304		EIS5EC007A	TRANSFORMER	1	
T7305		EIS5EC005A	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR301		EVTF6SA00B23	V.RESISTOR	1	
VR701,02		EVTF6SA00B23	V.RESISTOR	2	
VR741		EVNDXAA00B14	V.RESISTOR 10K	1	
VR801,02		EVTF6SA00B13	V.RESISTOR 1K	2	
VR803		EVTF6SA00B14	V.RESISTOR	1	
VR2001		EVNDXAA00B54	V.RESISTOR 50K	1	
VR2006		EVNDXAA00B15	V.RESISTOR 100K	1	
VR2011		EVNDXAA00B15	V.RESISTOR 100K	1	
VR3001		EVNDXAA00B23	V.RESISTOR 2K	1	
VR3012		EVTF6SA00B52	V.RESISTOR	1	
VR3013		EVNDXAA00B52	V.RESISTOR 500	1	
VR4002		EVNDXAA00B25	V.RESISTOR 200K	1	
VR4004		EVNDXAA00B53	V.RESISTOR 5K	1	
VR4501		EVMFLSA00B53	V.RESISTOR	1	
VR4502		EVMF6SA00B24	V.RESISTOR 20K	1	
VR4507		EVMF6SA00B24	V.RESISTOR 20K	1	
VR4509		EVMFLSA00BY3	V.RESISTOR	1	
VR4512		EVNDXAA00B52	V.RESISTOR 500	1	
VR4550		EVMFLSA00BS3	V.RESISTOR	1	
VR4551,52		EVMF6SA00B55	V.RESISTOR	2	
VR7301		EVMF6SA00B14	V.RESISTOR 10K	1	
VR7326		EVMF6SA00B52	V.RESISTOR	1	
VR7328		EVMF6SA00B52	V.RESISTOR	1	
VR7340		EVNE4AA00B14	V.RESISTOR 10K	1	
VR7342		EVNE4AA00B53	V.RESISTOR 5K	1	
VR7344		EVNE4AA00B14	V.RESISTOR 10K	1	
VR8001		EVNDXAA00B23	V.RESISTOR 2K	1	
			CRYSTAL OSCILLATORS		
X710		EFCH38MGP1	CRYSTAL OSCILLATOR	1	
X711		VLF0638	CRYSTAL OSCILLATOR	1	
X716,17		EFCA40R40M1	FILTER	2	
X801		VSX0129	CRYSTAL OSCILLATOR	1	
X3901		VSX0099	CRYSTAL OSCILLATOR	1	
X6001		VSX0244	CRYSTAL OSCILLATOR	1	
X7001		VSQ0565	CRYSTAL OSCILLATOR	1	
X7301,02		EFCS5R5MS5B	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	FILTER	1	
X7851		EFOA4R0M03C2	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0031	WIRE SADDLE	1	
		VWJ14AW150BB	FLAT CARD CABLE	1	(P7401-P7501)
		VWJ0596A	FLAT CARD CABLE	1	(P7402-P7502)
		VWJ0589A	FLAT CARD CABLE	1	(P6001-P1504)
		VWJ0590A	FLAT CARD CABLE	1	(P2002-P006)
		VJH0617	ANT TERMINAL PLATE	1	
		ENC17984	RF CONVERTER	1	<!>
		VJF0974	FLAT CARD CRIP	1	
		VJR0160	CONNECTOR 6P	1	FOR LUMI. & CHRO.
		VJR0163	CONNECTOR 9P	1	FOR LUMI. & CHRO.
		VJR0130	CONNECTOR 12P	1	FOR LUMI. & CHRO.
		VSC3440	SHIELD BARRIER	1	FOR LUMI. & CHRO.
					(NV-F55EG)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VMZ1913	PCB BARRIER	1	FOR LUMI. & CHRO.
					(NV-F55EG)
		VJR0189	CONNECTOR 10P	1	FOR INPUT/OUTPUT
		ENV57884H6	TUNER	1	FOR TV DEMODULATOR
		VSC3242	SHIELD COVER (MAIN)	1	FOR TV DEMODULATOR
		VSC3241	SHIELD COVER (TOP)	1	FOR TV DEMODULATOR
		VMC0727	EARTH SPRING	1	FOR TV DEMODULATOR
		VSC2714	SHIELD COVER (BOTTOM)	1	FOR TV DEMODULATOR
	■	VEP05170E	HEAD AMP C.B.A.		(NLA)
			CAPACITORS		
C501,02		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C503		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C504-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	2	
C512		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16		ECUM1C474ZFN	C.CAPACITOR 16V 0.47U	2	
C517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20		ECUM1C474ZFN	C.CAPACITOR 16V 0.47U	2	
C521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C522		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C524		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C526		VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C540		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C551		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555		ECEA0JPK221	E.CAPACITOR 6.3V 220U	1	
C556,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C558		ECEA0JPK470	E.CAPACITOR 6.3V 47U	1	
C559		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C560,61		ECUM1H471KBN	C.CAPACITOR CH 50V 470P	2	
C562,63		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564		ECUM1C105ZFN	C.CAPACITOR 16V 1U	1	
C565		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
			INTEGRATED ICRCUITS		
IC501		AN3337SB	IC	1	
IC551		BA7743FS	IC	1	
			COILS		
L501,02		VLQ0188K330	COIL 33UH	2	
L551,52		VLQ0188K330	COIL 33UH	2	
			CONNECTORS		
P501		VJP1394T	CONNECTOR (MALE)	1	
P502		VJS2603	CONNECTOR (FEMALE)	1	
P551		VJP1248T	CONNECTOR (MALE) 8P	1	
			RESISTORS		
R501		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R502		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R503		ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R504		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R505		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R507		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R508		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R509-12		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	4	
R517		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R526		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R527		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R529		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R551		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R552		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R553		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R554		ERJ6GMYJ243	M.RESISTOR CH 1/10W 24K	1	
R556		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R557		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R558		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R559,60		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R561		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R562		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R563		VRE0034E100	M.RESISTOR CH 1/10W 10	1	
R564		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R565		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R566		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R567		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
			MISCELLANEOUS		
		VSC3477	SHIELD COVER (TOP)	1	
		VSC3478	SHIELD COVER (MAIN)	1	
		VSC3479	SHIELD COVER (BOTTOM)	1	
	■	VEP07663A	TIMER C.B.A.		(NLA)
			CAPACITORS		
C7501		ECRHA030E41	TRIMMER 3P	1	
C7502-12		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	11	
C7513		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7514		ECEA0JKS101	E.CAPACITOR 6.3V 100U	1	
C7515		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7516		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C7517		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C7518		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C7519		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7520		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C7521		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C7522		ECUM1H050DCN	C.CAPACITOR CH 50V 5P	1	
C7523		ECEA0JK221	E.CAPACITOR 6.3V 220U	1	
C7524		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C7525		ECEA1HK220	E.CAPACITOR 50V 22U	1	
C7526		ECEA0JU221	E.CAPACITOR 6.3V 220U	1	
C7527		ECEA1VU100	E.CAPACITOR 35V 10U	1	
C7528		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7529		ECEA1CU101	E.CAPACITOR 16V 100U	1	
C7533		ECUM1H821KBN	C.CAPACITOR CH 50V 820P	1	
C7534		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7535		ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7536		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C7537		ECUM1H223ZFN	C.CAPACITOR 50V 0.022U	1	
C7538,39		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7540		ECUM1H104ZFN	C.CAPACITOR 50V 0.1U	1	
C7541		ECKD2H471KB	E.CAPACITOR 500V 470P	1	
C7547		ECUM1C224ZFN	C.CAPACITOR 16V 0.22U	1	
			DIODES		
D7503,04		MA73	DIODE	2	
D7508		MA73	DIODE	1	
D7511-17		MA73	DIODE	7	
D7519		LN38GCPPV	DIODE	1	
D7520,21		LN28RCPPV	DIODE	2	
D7523		SB05-05CP-TB	DIODE	1	
D7524		MA185	DIODE	1	
D7525		MA3075	DIODE	1	(H,M,L)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D7526		MA4300H	DIODE	1	
D7533,34		MA73	DIODE	2	
D7537-39		MA73	DIODE	3	
D7541-44		MA73	DIODE	4	
D7546		MA73	DIODE	1	
D7548,49		1SS254	DIODE	2	
D7551		1SS254	DIODE	1	
			DISPLAY TUBES		
DP7501		VSL0214	DISPLAY TUBE	1	
			INTEGRATED CIRCUITS		
IC7501		MN187164VLCX	IC	1	
IC7502		M6M80021P	IC	1	
IC7503		MN1280S	IC	1	(S)
IC7504		MN1280L	IC	1	
IC7505		BA6810S	IC	1	
			COILS		
L7501		ELESP221KA	COIL 220UH	1	
L7503		ELESQ101KA	COIL 100UH	1	
			CONNECTORS		
P7501		VJS3193B020A	CONNECTOR (FEMALE)	1	
P7502		VJS3193B014A	CONNECTOR (FEMALE)	1	
P7504		VJP3084A008	CONNECTOR (MALE)	1	
P7505		VJP1929T	CONNECTOR (MALE)	1	
P7509		VJS3255	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q7502		2SD973B-R	TRANSISTOR	1	
			COMBINATION PARTS		
QR7501		UN2216	TRANSISTOR-RESISTOR	1	
QR7504		MRN1404	TRANSISTOR	1	
QR7506,07		MRN2403	TRANSISTOR-RESISTOR	2	
QR7508		MRN2402	TRANSISTOR	1	
			RESISTORS		
R7513		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7515		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7516		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7518		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R7519		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R7520-22		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7524		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
R7525-27		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7528		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
R7533		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R7534		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R7535		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7536		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7537		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7538		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7539		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R7540,41		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	2	
R7542		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7543		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
R7544-46		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7547		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
R7548		ERJ6GMYG331	M.RESISTOR CH 1/10W 330	1	
R7549		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R7550		ERJ6GMYG271	M.RESISTOR CH 1/10W 270	1	
R7551		VRE0034E332	M.RESISTOR CH 1/10W 3.3K	1	
R7552		ERJ6GMYG331	M.RESISTOR CH 1/10W 330	1	
R7553		ERJ6GMYG271	M.RESISTOR CH 1/10W 270	1	
R7554		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R7555		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7556		ERJ6GMYJ104	M.RESISTOR CH 1/10W 100K	1	
R7557		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R7558		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R7559-61		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	3	
R7562		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7569		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7573-77		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	5	
R7578		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R7579		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7580		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
R7581		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7582		ERJ6GMYJ822	M.RESISTOR CH 1/10W 82K	1	
			COMBINATION PARTS		
RX7501,02		EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503		EXBF8E104J	COMBI.R-R	1	
			SWITCHES		
SW7501		ESD170206	SWITCH	1	
SW7503		ESD170206	SWITCH	1	
SW7504,05		ESD170306	SWITCH	2	
SW7506		ESD170206	SWITCH	1	
			TRANSFORMERS		
TR7501		VLT0656	TRANSFORMER	1	
			VARIABLE RESISTORS		
VR7502		EVUF3AE15B24	V.RESISTOR	1	
VR7503		EWANYJX0554J	V.RESISTOR	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0484	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VJF0815	FIP HOLDER	1	
		VGU5739	SWITCH KNOB	5	
		VEK5206	IR RECEIVER UNIT	1	(NLA)
		VMD1487	LED HOLDER	1	
		VGU3436	REC VR KNOB	2	
		VYC0513	REC VR COVER	1	
	■	VEP06780A	OPERATION C.B.A.		(NLA)<!>
			CAPACITORS		
C6506		ECQV1H124JZ	P.CAPACITOR 50V 0.12U	1	
C6508		ECEA1EKS3R3	E.CAPACITOR 25V 3.3U	1	
C6509		ECEA1CKK100	E.CAPACITOR 16V 10U	1	
C6510		ECEA1AKS330	E.CAPACITOR 10V 33U	1	
			DIODES		
D6501		LN28RPX2	DIODE	1	
			INTEGRATED CIRCUITS		
IC6502		VCR0172	IC	1	
			CONNECTORS		
J6301		VJJ0274	MIC JACK	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P6501		VJP3084A008	CONNECTOR (MALE)	1	
PP6502		VJS3042B004W	CONNECTOR (FEMALE)	1	
PS6502		VJP3042A004W	CONNECTOR (MALE)	1	
			RESISTORS		
R6501		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
			SWITCHES		
SW6501,02		EVQ11407K	SWITCH	2	
			MISCELLANEOUS		
		VMX2030	LED SPACER	1	
	■	VEP01487A	POWER C.B.A.		(NLA)<!>NV-F55EG
	■	VEP01487B	POWER C.B.A.		(NLA)<!>NV-F55EV
			CAPACITORS		
C1101		ECQU2A154MNB	P.CAPACITOR 100V 0.15U	1	NV-F55EG
C1101		ECQU2A224MNB	P.CAPACITOR 100V 0.22U	1	NV-F55EV
C1102		ECQU2A104MN	P.CAPACITOR 100V 0.01U	1	
C1103		ECES2GG680AA	E.CAPACITOR 400V 68U	1	
C1106		VCC0021	C.CAPACITOR	1	
C1107		ECQE6473KF	P.CAPACITOR 50V	1	
C1108		VCK0106K121	CAPACITOR	1	
C1109		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1110		ECA1CXLV101	E.CAPACITOR 16V 100U	1	
C1111		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1112		ECEA1CFE560	E.CAPACITOR 16V 56U	1	
C1113,14		ECEA1DFZ681	E.CAPACITOR 680U	2	
C1115,16		ECEA1AFZ681	E.CAPACITOR 10V 680U	2	
C1117		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C1118		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1119		VCF2AAC101JT	P.CAPACITOR	1	
C1120		ECKF1H391KB	C.CAPACITOR 50V 390P	1	
C1121		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1133		VCC0021	C.CAPACITOR	1	
C1136		VCC0022	C.CAPACITOR 1000P	1	
			DIODES		
D1102		S1WBA60S	DIODE	1	
D1103		AP01C	DIODE	1	
D1104		MA4200H	DIODE	1	
D1105		MA723VT	DIODE	1	(VT)
D1106		MA178	DIODE	1	
D1107		AU01Z	DIODE	1	
D1108		MA185	DIODE	1	
D1109		30DF2	DIODE	1	
D1110		31DQ04	DIODE	1	
			INTEGRATED CIRCUITS		
IC1101		STRS6545LF	IC	1	
IC1102		SI3120C	IC	1	
IC1103		UPC1093J	IC	1	
			COILS		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L1101		ELF18D221F	COIL 220UH	1	
L1102,03		VLQ0410	COIL	2	
L1104,05		ELESE101KA	COIL 100UH	2	
L1106		VLP0074	COIL	1	
L1107		VLP0083	FILTER	1	
L1111		ELF18D290A	COIL 29UH	1	NV-F55EG
L1111		ELF18D221F	COIL 220UH	1	NV-F55EV
L1112-15		VLP0085	FILTER	4	
			CONNECTORS		
P1101		VJS2625	CONNECTOR (FEMALE)	1	
P1102		VJP1250T	CONNECTOR (MALE) 10P	1	
			TRANSISTORS		
Q1101		PS2561L1	TRANSISTOR	1	
			RESISTORS		
R1101		EROS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1102		ERG3SJ683	M.RESISTOR 3W 68K	1	
R1103		ERDS2TJ224	C.RESISTOR 1/4W 220K	1	
R1104		ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R1105		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1106		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1107		ERW1PK1R5	W.RESISTOR 1W	1	
R1108		ERDS2TJ561	C.RESISTOR 1/4W 560	1	
R1109		ERDS2TJ271	C.RESISTOR 1/4W 270	1	
R1110		EROS2CKG2701	M.RESISTOR 1/4W 2.7K	1	
R1111		ERDS2TJ272	C.RESISTOR 1/4W 2.7K	1	
R1112		EROS2CKG2401	M.RESISTOR 1/4W 2.4K	1	
R1113		EROS2CKG3302	M.RESISTOR 1/4W 33K	1	
R1114		ERDS2TJ682	C.RESISTOR 1/4W 6.8K	1	
R1115		ERDS2TJ471	C.RESISTOR 1/4W 470	1	
R1116		EROS2CKG62R0	M.RESISTOR 62	1	
R1117		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R1131		ERW1PK2R2	RESISTOR	1	
R1132		ERC12AGM334	S.RESISTOR 1/2W 330K	1	
R1133		ERDS2TJ224	C.RESISTOR 1/4W 220K	1	
			TRANSFORMERS		
T1101		VLT0657	TRANSFORMER	1	
			MISCELLANEOUS		
		VJF0318	FUSE HOLDER	2	
	■	VXA4463	MECHANISM CONNECTION C.B.A.		(NLA)
			MISCELLANEOUS		
		VMA7829	REINFORCEMENT PLATE (F)	1	
		VMA8468	REINFORCEMENT PLATE (R)	1	
		VJS3071T	FLAT CARD CONNECTOR (CABLE)	1	13P
		VMZ1366	SHEET	1	
		ON2170-RLF	PHOTO INTERUPTER	2	
	■	VEP00R11B	PHOTO TR. (S) C.B.A.		(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C1401		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C1402		ECQB1H472JZ	P.CAPACITOR 50V 4700P	1	
C1403		ECQB1H333KZ	P.CAPACITOR 50V 0.033U	1	
C1404		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1501		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			COILS		
L1401		VLQEL05S101J	COIL 100UH	1	
			CONNECTORS		
P1507		VJS3049B004T	CONNECTOR (FEMALE)	1	
P1512		VJS3070T	CONNECTOR (FEMALE)	1	
			TRANSISTORS		
Q1401		2SC3311-R	TRANSISTOR	1	(R)
Q1501		PN150NVS		1	
			RESISTORS		
R1401		ERDS2TJ333	C.RESISTOR 1/4W 33K	1	
			TRANSFORMERS		
T1401		EIQ7QF012Q	TRANSFORMER	1	
			MISCELLANEOUS		
		VMD0645	HOLDER	1	
	■	----------	PHOTO TR. (T) C.B.A.		(NLA)
			CAPACITORS		
C1502		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
			CONNECTORS		
P1503		VJS3049B004T	CONNECTOR (FEMALE)	1	
P1508		VJS2331	CONNECTOR (FEMALE)	1	
Q1502		PN150NVS		1	
			RESISTORS		
R1503		ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
			MISCELLANEOUS		
		VMD0645	HOLDER	1	
	■	VEX0123	CYLINDER DRIVE C.B.A.		(NLA)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C2901-3		ECEA1VSN2R	E.CAPACITOR CH 35V 2.2U	3	
C2904-6		ECUV1E104KBM	C.CAPACITOR CH 25V 0.1UU	3	
C2907		ECUV1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUV1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2909		ECUV1H104JS	P.CAPACITOR CH 50V 0.1U	1	
C2910,11		ECEA1CKS100	E.CAPACITOR CH 16V 10U	2	
C2912		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
			INTEGRATED CIRCUITS		
IC2901		AN3814K	IC	1	
			CONNECTORS		
P2901		VJP2603W	CONNECTOR (MALE) 12P	1	
P2902		VJP1232T	CONNECTOR (MALE) 5P	1	
			RESISTORS		
R2901		ERX12SJR68	M.RESISTOR 2W 0.68	1	
			THERMISTORS		
TH2901		VRH0017	THERMISTOR	1	
			MISCELLANEOUS		
		VMA8089	MAIN HOLDER	1	